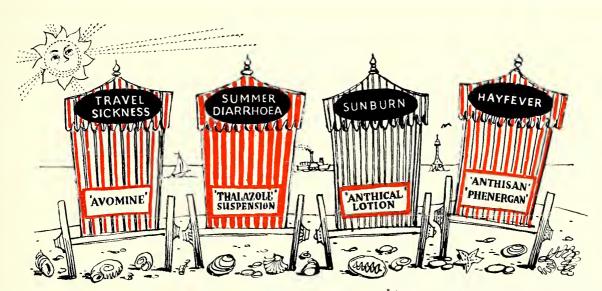
# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 10 1954



# Summer Ailments

In the train of summer comes a host of minor but often annoying conditions such as hayfever and summer diarrhoea. In many cases there is an M&B brand Medical Product that is ideally suitable for the treatment of these holiday season complaints.

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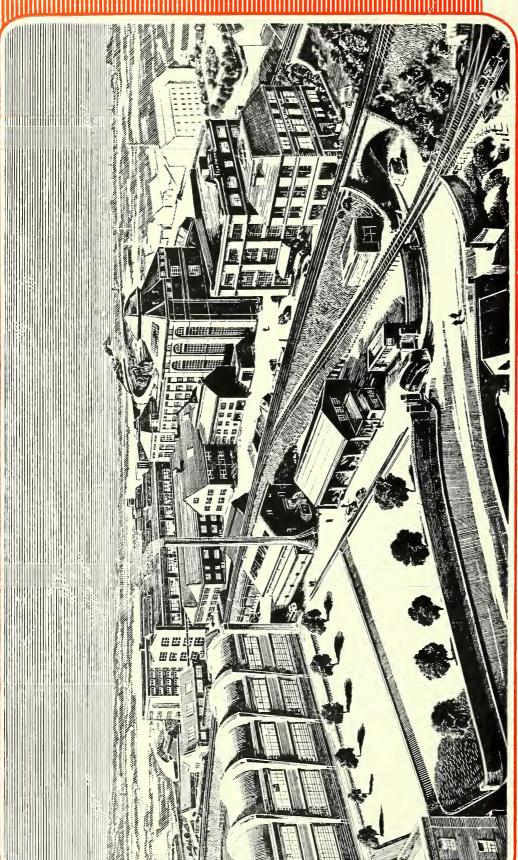
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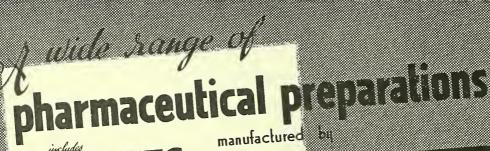
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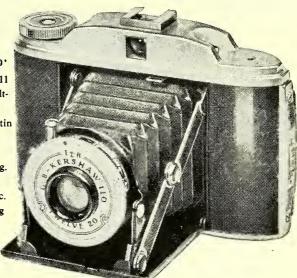
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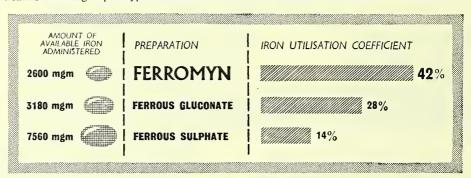
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PACKS AND PRICES: Bottles of 100 tablets 4/2d plus P. Tax. Bottles of 1,000 tablets 38/&d plus P. Tax.

**\*REF:** The Lancet 14.3.53-p.533.



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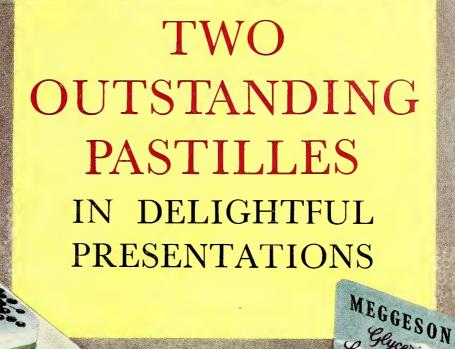
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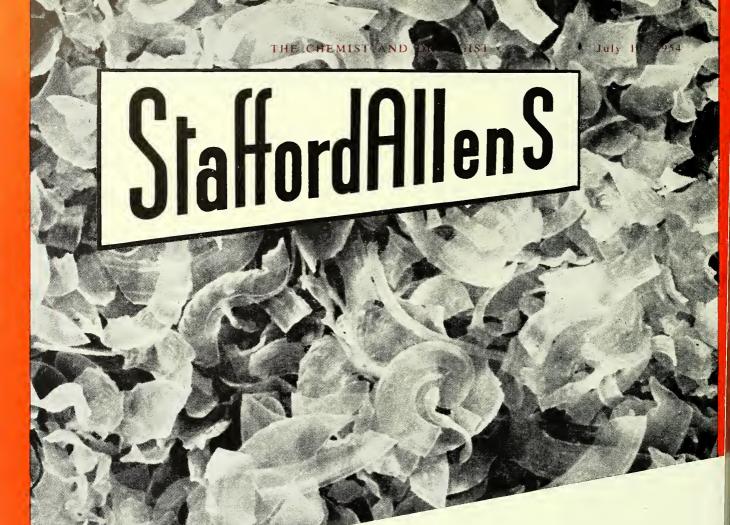
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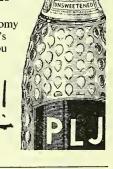
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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 162

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July 10, 1954

No. 3881

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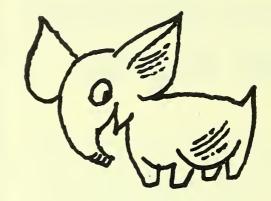
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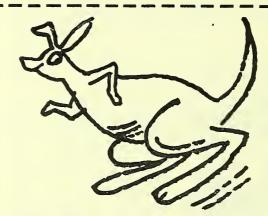
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# Agricultural Poisons

## NEW RULES FOR PROTECTION OF WORKERS

A NEW Order which came into force on July 1 makes changes in the regulations for the protection of workers who use certain poisons in agriculture and horticulture.

The Order includes earlier regulations which came into force in 1953 (see C. & D., 1953. I. 290 and 557) amended where necessary. A new organophosphorus compound (sulphotepp), at present being used only on a limited scale, is added to the list of

limited scale, is added to the list of poisons covered by the regulations. The changes include the following:—

The period after the use of a specified substance in a greenhouse during which a worker may not enter unless he wears the prescribed clothing is reduced by one hour to seven hours (six hours and one hour's ventilation). An alternative is permitted of twelve hours with no ventilation period.

Regulations now apply when specified substances are used in greenhouses empty of plants.

of plants. The p The power of the Minister to issue certificates of exemption from the requirements of the regulations concerned with glasshouse work and with the wearing of protective clothing has been widened so that exemptions can now be granted to

that exemptions can now be granted to any of the regulations.

A dust-mask is permitted as an alternative to a face-shield when ground crops are sprayed with the less volatile of the specified poisons.

An eye-shield may be worn as an alternative to a face-shield, and rubber boots need not now be worn when opening a container of, or when diluting or mixing DNC or dinoseb for use as an insecticide (those substances for such use are exempt from the regulations if they do not constitute more than 5 per cent, by weight of the spraying compound).

In approved circumstances, a specified substance prepared in the form of a capsule is exempted from the regulations.

Rubber boots need no longer be worn for hop spraying.

for hop spraying.

A respirator must now be worn for most operations in which dimefox is used. Recently approved common names—demeton-O and demeton-S—are used in the new regulations for the two forms of

The Order, known as the Agriculture (Poisonous Substances) Regulations, 1954, is published as S.I. 1954, No. 828, by H.M. Stationery Office, price sixpence.

#### POISONS LIST Impending changes

STATUTORY Instruments giving effect to recommendations made to the Secretary of State by the Poisons Board are being prepared. It is proposed to make the following changes in the Poisons List and in the Schedules to the Poisons Rules:— Sulphotepp will be added to the list of phosphorus compounds already included in Part II of the Poisons List and in Schedules I, III, V, VII and VIII, and Rule 14 (2) (b) of the Poisons Rules. Laudexium and its salts will be added to Part I of the Poisons List and Schedule

Preparations for application in the nose and eye, and containing not more than 1 per cent. of antihistamines, will be exempfrom the requirements of the macy and Poisons Act and the Pharmacy and Poisons Rules.

Mipafox, in the form of caps on sticks or wires, will be exempted from the special requirements applied to sales by listed sellers by Rule 14 (2) (b) of the Poisons

#### PHARMACISTS' UNION Evidence on N.H.S. costs

THE council of the Registered Pharmacists Union has informed the Guillebaud Committee that, in its opinion, no great reduction can be made in the cost of the pharmaceutical service without restricting its scope to the prejudice of the patient. It considers that, viewed as a *per caput* sum, the cost of the pharmaceutical service is not excessive, and that a larger sum should be allocated for rota payments, which are at present insufficient to meet the cost of the service provided.

#### STATUTORY COMMITTEE Five members appointed

THE following have been appointed members of the Statutory Committee of the Pharmaceutical Society for five years from July 4:—Messrs. T. Heseltine, W. S. Howells, D. W. Hudson, A. A. Meldrum and S. G. Tydeman.

#### TAX-FREE EXPORTS Evidence of posting concession

TRADERS registered for purchase tax purposes need no longer use the special forms devised and introduced by the Commissioners of Customs and Excise in November 1953 (C. & D., 1953. 2. 385), as evidence of posting tax-free exports where the goods do not exceed £1 in value. Simplification of procedure in the case of group postings is also introduced with the issue of a new notice (No. 77G).

#### DRUG-TEST DEFICIENCIES Monetary penalties imposed

BIRMINGHAM chemist has been ordered by the local Executive Council to forfeit £15 of his remuneration because a test prescription which he had dispensed was 93.6 per cent. deficient in citric acid. His only defence was that at the time he had insufficient solution of citric acid available. The Council decided that extreme carelessness had been shown in dispensing the prescription, and it was noted that



THE NAME'S THE SAME: New premises now open for Row & Taylor, Ltd., St. Stephen's, Norwich, side by side with the 101-year-old pharmacy soon to be demolished as part of road-

that was the second occasion on which the chemist's dispensing had been at fault. Two other chemists each had £3 withheld from their remuneration in respect of ointments deficient in sublimed sulphur. In both cases the ointment had been purchased as standard through wholesalers from manufacturers under a warranty. The council decided that in spite of the warranty the chemists were still committing a breach of the terms of service in supplying an ointment not of the strength prescribed,

#### FOOTBALL CUPS SHOWN

TWO of football's most coveted trophies, the Football Association cup and the League cup, provided an unusual attraction for visitors to the annual sports of Geo. Salter & Co., Ltd., West Bromwich, held recently. Prizewinners at the sports received their awards from Mr. Ronnie Allen (West Bromwich Albion football team).

#### D.D. AUTHORITY RESTORED

THE Home Secretary has restored to Mr. Arthur Crowley, L.A.H. (Dublin), from July 6, authority to be in possession of, to supply or to give prescriptions for Dangerous Drugs. It was withdrawn from him in January 1951.

# SC OTTISH NEWS OFFICERS APPOINTED

MR. S. HUGHAN was unanimously re-elected *Chairman* and Mr. W. A. Park unanimously elected *Vice-chairman* of the Executive of the Scottish Department of the Pharmaceutical Society at a meeting of the Executive held in Edinburgh on June 30. A welcome was extended to the new members of the executive, Messrs. J. D. C. Anderson and W. C. Carmichael, and pleasure expressed at the re-election of Messrs. J. B. Grosset, W. A. Park, J. Simpson and H. T. Thomas. It was reported that arrangements had been made for the following branch meetings:—

July 21, Mr. W. T. Elder to address the Northern Scottish Branch in Dingwall; September 29, Dr. K. R. Capper to address a joint meeting of Edinburgh and Dundee Branches in Kirkcaldy; September 30, Dr. K. R. Capper to address Stirling Branch in Stirling; October 13, Sir Hugh Linstead to address Glasgow Branch in Glasgow; October 14, Sir Hugh Linstead to address Aberdeen Branch in Aberdeen:

November 24, The president (Mr. E. A. Brocklehurst) to attend the annual dinner of the Edinburgh Branch in Edinburgh. It was agreed that consideration of a subject for discussion at next annual meeting in Edinburgh should be before the Executive throughout the year. Mr. A. Officer asked how many students taking forensic phar-macy had completed their practical training. From recent observations, he thought that those who had were more able to deal with the questions. THE CHAIRMAN said that when at next meeting the report of the present examination was submitted, the results in that subject would be seen. It was reported that an increasing number of hospitals in Scotland were applying for the approval of their pharmaceutical departments for the practical training of students. So far, the number of requests for a revision course in pharmacy did not warrant the institution of such a course. It was agreed to commemorate the inclusion of the Scottish Department in the Society's Charter the holding of a dinner. It would be held on October 19. A suggestion by MR, THOMAS that the dinner should be an annual event was accepted in principle.

#### £50 FINE RESCINDED

A FINE of £50 for alleged extravagant prescribing, imposed on a firm of medical practitioners by the Glasgow Executive Council, has been rescinded by the Department of Health for Scotland, it was stated at a meeting of the Council on June 24. The commissioners appointed by the Department maintained that the Local Medical Committee had not allowed the doctors to appear before them and had not furnished them with a statement indicating the grounds on which an investigation had appeared necessary.
The Local Medical Committee informed the Executive Council that one of the doctors had represented himself and his partners. It also considered that a share of responsibility for the alleged irregularities had to be borne the Department, which had ruled that, as the prescribing subcommittee was a fact-finding one only, delegation of powers to it was not necessary; surcharges were decided by the full committee. The Council has asked the Department to authorise the delegation of certain "necessary powers" prescribing subcommittee. to the Those include powers to investigate the character and quantity of drugs and appliances ordered or supplied by practitioners and to recommend to the Local Medical Committee the action to be taken for recovery of sums from practitioners.

#### TALK ON RETAIL PRACTICE

ADDRESSING the June meeting of the Aberdeen and North-eastern Scottish Branch of the Pharmaceutical Society, Mr. W. T. Elder (a member of the Society's Council) emphasised the great help which the Society gave to all its members through its officials and urged all members to take advantage of any advice given by the Society's inspectors. The appearance of the pharmacy in the public eye was important and where allied products had to be stocked for economic reasons, they should be in keeping with pharmacy's ethical standards.

#### NEW PHARMACIES NEEDED

THE urgent need for chemists' shops in the vastly expanding new housing estates of Aberdeen was stressed at a meeting of the City of Aberdeen Executive Council recently. It was suggested that the town council should allocate at least one shop for a pharmacy in the block of shops being built in each area. It was intimated that the corporation intended to sell the shops.

#### **NEWS IN BRIEF**

SIR William Gilliatt has been elected President of the Royal Society of Medicine.

MEMBERS of the Halifax Branch of the Pharmaceutical Society visited the laboratories of Thomas Kerfoot & Co., Ltd., on June 24.

THE Drug Tariff, April 1954, which is now published, contains certain additions and amendments (see *C. & D.*, March 20, p. 284, April 3, p. 333, and April 10, p. 389).

THE Royal Institute of Chemistry has provisionally recognised Slough College of Further Education as a training centre for candidates for the Institute's associateship.

COPIES of the report of the Committee on General Practice (see C. & D., July 3, p. 9) have been circularised to Clerks of Executive Councils and to hospital authorities.

#### SPORT

A Golfing Society for South London.—Prospective new members for the recently formed South London and Surrey Pharmacists' Golfing Society should apply for details to Mr. G. G. Jamieson, 3 High Street, South Norwood, or Mr. G. G. Watt, 99 Streatham Vale, London,

Golf. — NORTH AND SOUTH IRELAND GOLFERS, at Baltray golf club, co. Louth, recently. Annual competition for the B.D.H. cup and prizes. Cup match won by Ulster Chemists' Golfing Association. Individual prize winners for the Ulster Chemists' Golfing Association were: D. Clarke (4), 65, and R. Robinson (8), 71, and for the Irish Chemists' Golfing Society J. T. Foley (18), 74, and E. W. Massey (16), 74, Later the northern visitors were the guests of the southern society to supper at the club house, at which the cup and the prizes were presented by Mr. W. P. Mullen (senior representative of The British Drug Houses, Ltd., in Ireland).





Messrs. John Foley, H. Orpen and M. P. McCooey in conversation before the cap-

tain's dinner at the three-day outing of the Irish Chemists' Golfing Society (see C. & D., June 26, p. 638). At right: Dr. O. K. O'Malley (winner of the captain's prize), photographed in company with Messrs. C. A. Collis (captain), E. A. MacManus and Philip Fahey (secretary).



Mr. Leslic O. Smith (general manager of the European branch of Parke, Davis & Co., Ltd.), presenting a long-service pin to the company's assistant general manager (Mr. John A. Freeman) at a dinner in Hounslow, recently (see C. & D., July 3, p. 2).

#### **INQUESTS**

Tablets from Trinket Box. — At Ebbw Vale, recently, a verdict of death by misadventure was recorded on four-year-old Christine Forbes, Cym, who had died at Ebbw Vale after taking tablets which she discovered in her mother's trinket box. The tablets had been prescribed for allergic measles. The coroner said he was satisfied that the mother had taken all reasonable precautions to prevent the children getting at the tablets.

Barbiturates After Alcohol. — A warning against taking barbiturate drugs after alcohol was given by the Chester deputy city coroner, recently, at a resumed inquest on Frank Robert Maddocks, Eaton Road, Chester, who died on May 3. The coroner, who recorded a verdict of misadventure, said that alcohol appeared to increase the capacity of absorption of the drug, and to make it more potent. "It is a dangerous proceeding to take any of these drugs after alcohol has been drunk," he said. "It so varies the bodily reaction that a much smaller amount of the drug can prove fatal."

Liniment in Mistake for Expectorant.—At a Liverpool inquest recently, the city coroner recorded a verdict of accidental death on an eighty-two-year-old Speke widow who died in Garston Hospital from poisoning after taking a drink from a bottle of liniment believing it to be a cough mixture. The evidence was that a doctor had prescribed liniment for the old lady's arthritis and cough mixture for her bronchitis. Both were dark brown in colour. She asked her eleven-year-old grandson to get her bottle of "dark medicine." He found only one bottle in her bedroom and brought it.

Barbiturate Overdose. — At an inquest at Hitchin recently, a pathologist stated that Mr. F. E. Lane, Welwyn, had died from an overdose of Amytal. A Knebworth doctor was stated by Mrs. Lane to have prescribed the tablets for insomnia. The treatment had started with small doses, but "after a time they seemed to have less effect." She had known him to take as many as seven tablets without ill effects. As the doctor was going away for a time her husband had got an unusually large number of tablets (72) from a chemist shortly before his death. On the way home he had had a small whisky.

# TOPICAL REFLECTIONS

By Xrayser

## N.P.U. North-east Area Conference

The recent conference of N.P.U. members from three north-eastern counties (p. 4) has set up a record for attendance. The agenda was arranged systematically, according to matters relating to the N.P.U., the C.F. and the N.H.S. Under the first heading, Mr. E. A. Brocklehurst said that the Chemists' Mutual Insurance scheme had 60,000 policies in force, and gave members 20 per cent. advantage in rates over other companies. Of the seven resolutions which followed, one (from Leeds) called for an increase in funds for national and local purposes. Obviously there must be more funds if there are to be more activities. Further light was thrown on relations between pharmacists and manufacturers of veterinary products by speeches from Middlesbrough and Hull. A resolution was passed for support in compelling manufacturers to admit their products through pharmaceutical channels. One would have thought that the collaboration of the Pharmaceutical Society and the Royal Veterinary College in the new Veterinary Pharmaceutical Codex would have established a relationship between the Society and the Veterinary College such that the help of the veterinary profession could be secured in the matter. Other motions produced fruitful discussions, and these should be read

## Press-Button Nursing?

We are accustomed, in these days, to references to the "press-button" age and I learn from your columns that that description may soon be true of a development in the sphere of nursing. Your article on the new American electronic clinical thermometer (p. 5) "... foresees the time when all the beds in a hospital ward will be wired so that patients can place a thermometer under their tongues or arms and a nurse at a distant part of the ward will be able to read off their temperatures from a meter." No doubt that is a scheme that will commend itself to over-worked nurses in large hospital wards. But there are snags in the way of its introduction that may be all-too-easily perceived. For example, how is the patient to know when to insert the metal tube in his mouth so that the temperature it reaches is indicated on the distant nurse's meter? Are patients to receive on entry into the hospital a drill-book and time-table that will indicate in all its undoubted complexity the system of remote-controlled temperature taking? Or will a loud-speaker system be utilised to convey the nurse's instructions?

# A Poet's Trading

In 1713 the poet and playwright Aaron Hill was granted a patent for extracting oil from beechmast. A company with a nominal capital of £25,000 was formed for the purpose, and the venture was publicised with the aid of pamphlets; but by 1716 the scheme had collapsed—many of the subscribers had become "peevish," the Dictionary of National Biography states—and Hill lost a considerable sum. This was not his only experience of commerce. In 1714 he formulated a scheme for "improving" the wool trade. Later he planted vineyards in Essex, devised a plan for making potash, and interested himself in Scottish timber. He also proposed to establish a colony in the American Georgia, and land was obtained there; but failure was the outcome. It is amusing to read that so unsuccessful a man tendered advice to Sir Robert Walpole on politics, and to Garrick on acting. Hill's poetry is, I believe, forgotten except by a few experts. He is credited, among other things, with the quatrain beginning "Tender-handed stroke a nettle, And it stings you for your pains." With a more famous poet, Alexander Pope, his relations varied from cordiality to enmity. Their public quarrels must have helped, in that age of open controversies, to draw attention to the literary output of each. Hill died in 1750, two days before reaching the age of sixty-five, and was buried in the cloister of Westminster Abbey.

#### CHEMICALS IN FOOD

#### Discussions on the Food and Drugs Amendment Bill

A MEETING of the Food Education Society held in London on June 23 discussed the Food and Drugs Amendment Bill. Speakers included Lord Hankey, who was in the chair, Lord Sempill, and Dr. Franklin Bicknell. At the invitation of THE CHAIRMAN, Dr. Barnett Stross, M.P., Mrs. Doris Grant, Lord Douglas and Mr. Norman Dodds, M.P., who were in the audience gave their views on the Bill.

LORD SEMPILL said that the object of the Food and Drugs Amendment Bill was to strengthen the Food and Drugs Act, 1938 and so to protect the public from "either the carelessness or the perfidy of human beings." The first purpose of the Bill was to ensure a higher standard of cleanliness in places where food was prepared or handled. The second main purpose was to protect the public "against the use of substances and processes which are liable to render food injurious to health." Lord Sempill said that the dominant voice in food should be that of medical science and not that of the chemist. It was strange that so much care was taken of what might be bought in a chemist's shop and so little of what might be bought in a food store. The Medical Research Council had continuously pointed out the dangers of the "ingestion of food treated by unnatural chemical substances." The Council argued that much disease in western countries was due to errors of living introduced or greatly increased in modern times by the permissive use of up to 700 chemical substances in food. The Ministry of Health should have the deciding voice in the use of chemicals in food preparation. Lord Sempill paid tribute to the work of medical officers of health but suggested that their laboratory facilities should be extended and that there should be one on a national basis broadly similar to that existing in the United States.

Some ten years had elapsed since the basic research on the toxic effect of agene was undertaken. The apparent official complacency to the ingestion of agenised flow was disturbing, not only in itself, but because it indicated a reluctance to consider seriously the wider problems of commercial manipulation of food, and its relation to health and disease.

Lord Sempill hoped that when the Bill became an Act, the clear labelling of all foodstuffs would be compulsory.

The startling increase in the degenerative diseases must be carefully considered. The incidence of cancer in men had increased by 65 per cent.; of strokes in men by 45 per cent.; of strokes in women by 27 per cent.; of angina and thrombosis in men by 175 per cent.; of angina and thrombosis in women by 80 per cent.; of high blood pressure in men by 195 per cent, and of high blood pressure in women by 550 per cent. For those figures he was indebted to Lord Horder. Since 1921 the death rate from diseases of heart and circulation had continued to increase. In the years before 1921 they were around 65,000 a year and were now around a quarter of a million. Although the increasing tempo of life might have some effect on the rising curve, it was more likely that the cause was un-suitable feeding; the agenisation of bread began around 1921.

## NAME REMOVED FROM REGISTER

#### **Statutory Committee decision**

AT a meeting held in London recently the Statutory Committee of the Pharmaceutical Society directed that the name of Mr. Geoffrey William Unwin, Trevelyan House, Ridgeway, Rayleigh, Essex, should be removed from the Register of Pharmaceutical Chemists. Mr. A. C. CASTLE (the Pharmaceutical Society's solicitor) presented evidence to show that Mr. Unwin had been convicted at Essex assizes of conspiring with a doctor to defraud the Essex Executive Council and of causing by false pretences cheques for £1,121, £1,393 and £827 to be paid to the company of which he was managing director (see C. & D., March 6, p. 230). Prescriptions written by the doctor had been submitted by Mr. Unwin, without dispensing, for payment. Mr. P. RAWLINSON (solicitor for Mr. Unwin (who had attended in response to his notice)) said that the only evidence the Committee had was of the conviction: Mr. Unwin had pleaded not guilty. The profit to his company from fraudulent prescriptions was some £60. The doctor used to obtain drugs to supply his patients when no chemist was open but he left no prescriptions for them with Mr. Unwin. Later the doctor would supply

the prescriptions but there was confusion in the records of what drugs had been supplied. That confusion and the breaking of the rules of procedure for supply of drugs under the National Health Service, and not a deliberate attempt at fraud were the reasons Mr. Unwin had received overpayment from the Executive Council. Announcing the Committee's decision Mr. D. A. Scott-Cairns, Q.C. (chairman) said that the committee must assume that Mr. Unwin was rightly convicted at Essex assizes. There was no doubt that the offences rendered him unfit to be on the Register of Pharmaceutical Chemists.

A second case concerned a pharmacist who had appeared before the Committee on May. 6, 1953 because of a conviction on a charge of having stolen 5s. from his employers (see C. & D., 1953. I. 510). The pharmacist appeared in answer to his notice. The CHAIRMAN said that when the inquiry was adjourned in 1953 the pharmacist was asked to produce references as to his behaviour in the interval. He had submitted three letters, one of which really said nothing about him but gave information about his family. Mr. CASTLE then read a letter sent from

the secretary of the Committee to the pharmacist stating that between October 1, 1953 and March 1, it was alleged that the pharmacist had been guilty of these acts of misconduct: On a number of occasions, (1) being under the influence of drink or drugs so as to be unfit to take charge of a pharmacy, (2) being rude or offensive to customers, and (3) refusing to dispense N.H.S. prescriptions. Witnesses supporting those allegations presented evidence. After the Committee had considered the case in private THE CHAIRMAN said that the Committee had decided to adjourn the inquiry for a further twelve months. Shortly before the end of that period, he suggested, the pharmacist should submit at least two testimonials, from responsible people speaking of his good behaviour in every respect. He said that if the evidence which had been called had been a little stronger the Committee would undoubtedly have directed the removal of his name from the Register.

#### N.H.S. STATISTICS

In England during November 1953, 17,221,052 prescriptions (9,984,694 forms) were dispensed at a total cost for ingredients, fees and containers of £3,394,975. The average total cost per prescription was 46.07d., the average dispensing fee 12.56d.

In BOLTON during 1953-54 the total cost of the National Health Service was £457,267.

In Essex during 1953, 8,041,516 prescriptions (4,657,291 forms) were dispensed at a total cost for ingredients, fees and containers of £1,670,432. The average total cost per prescription was 49.97d.

In Halifax during 1953-54, 483,847 prescriptions were dispensed, over 400 more than in 1952-53.

In London during October, 1953, 1,733,918 prescriptions were dispensed at a total cost for ingredients, fees and containers of £319,286. The average total cost per prescription was 44·19d. During December 1953, 1,612,763 prescriptions were dispensed, at a total cost for ingredients, fees and containers of £310,739. The average total cost per prescription was 46·27d., and the average dispensing fee 12·54d. During January 1954, 1,736,409 prescriptions were dispensed at a total cost for ingredients, fees and containers of £329,907. The average total cost per prescription was 45·6d, and the average dispensing fee 12·56d.

In Merioneth during 1953-54, the total cost of the National Health Service was £142,119, £24,440 less than in 1952-53. The pharmaceutical services cost £53,852 compared with £62,531 in 1952-53.

In MONTGOMERYSHIRE during 1953-54, the total cost of the National Health Service was £130,681, of which the pharmaceutical services accounted for £27,982.

In NOTTINGHAMSHIRE during 1953-54, 4,003,458 prescriptions were dispensed at an average cost of 3s. 3\frac{1}{4}d. each. The total cost of the pharmaceutical services was £695,850.

#### BRITISH MEDICAL ASSOCIATION

#### Business and science at Glasgow annual meeting

THE 122nd annual meeting of the British Medical Association opened in Glasgow on July 1. During the opening session Dr. I. D. Grant (chairman) of the private practices committee) said that he had come away from discussions feeling that the Minister and the Ministry of Health wished private practice to die of inanition. The way was being paved for what was still the dream-child of many politicians a salaried State medical service. That would be disastrous to the people and the profession, and against that threat an active, virile, and strong private practice, working in friendly rivalry with the health service, would be the stoutest bulwark.

#### Resolutions on Remuneration

The Conference carried a resolution deploring the inadequacy of the recent agreement reached on the remuneration of hospital medical staffs, and urging that steps be taken to reopen the matter immediately (see C. & D., April 17, p. 395).

A motion to withdraw all members from the public health service if a Whitley Court of Arbitration had not been obtained by December 31, was

defeated.

A motion instructing the council to set up a committee to make recom-mendations "designed to establish a general policy on remuneration of doc-

tors," was adopted on July 2.
On July 3, the Conference voted against a return of the doctor's right to buy and sell the goodwill of practices. A short discussion followed on the dangers of training more doctors than the profession could absorb without bringing down the level of income and perhaps producing unemployment.
DR. C. R. CLAYBURN, Hexham, carried a motion, designed to support the council in its present attitude, that the Minister of Health should be impressed with the extreme urgency of setting up a working party to review the problem. Dr. Clayburn pointed that junior hospital posts were under-manned and the armed services

were desperately short of doctors.
On July 5, a motion that the televising of advertisements for pharmaceutical products, either directly or indirectly by the science survey type of programme, would be prejudical to the best interests of medical practice in Britain was carried. An amendment was also adopted warning against the danger of "fictitious doctors giving fictitious advice."

DR. G. J. ALEXANDER, Edinburgh.

who moved the original motion, had in mind a science survey programme televised by the B.B.C., in which a new method of treating pernicious anæmia "was put forward as a great achievement"; it consisted, he said, of tablets administered by mouth. "The value of this form of therapy," said Dr. Alexander, "has not yet been finally established, but patients were asking for the treatment as soon as the television programme was shown. It is obvious there are dangers in commercial television." Dr. A. C. Brad-

LEY, London, moving the amendment, described as considerable the impact on the lay public of newspaper advertising of that type. He thought that men "dressed in white jackets carrying stethoscopes and so on will have a far greater impact on people watching television in their homes."

Dr. GUY DAIN told the conference that as chairman of the public relations committee he had received an invitation to meet the Postmaster-General about the advertising of doctors on television. Lord De La Warr, he said, was anxious to deal with any possible objections B.M.A. members might make.

The conference also passed, one dissentient, a resolution reaffirming opposition to any form of fulltime salaried general medical service as the policy of the association.

In his presidential address, on July 5, SIR JOHN MCNEE, who until 1953 was for seventeen years regius professor of the practice of medicine in the University of Glasgow, said that he was well aware that the practitioner's reiterated complaint was of lack of time to examine his patients thoroughly, and in much of general practice today that was only too true. "This fault is no longer confined to general practice, for it has been infecting consultants, with their increasingly busy hospital departments and clinics. This state of affairs cannot be allowed to go on.

At plenary scientific sessions held on July 6, 7 and 8, the respective sub-



PROPOSED COAT OF ARMS: A coat of arms proposed for the British Medical Association includes the figure of Hippocrates holding the apple of health and William Harvey holding a ring symbolic of his discovery of the circulation of blood. In the lower part of the shield is a symbol of the "Maunche" (representing a mediæval lady's sleeve) of the Hastings family. Sir Charles Hastings was the founder of the Association.

jects were "The Problem of Sleep,"
"Food and Disease," and "The Problem of Pulmonary Tuberculosis Today," Scientific sessions were also held

on July 7, 8 and 9.

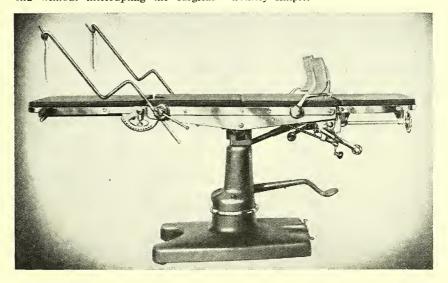
Scientific and medical exhibitions were held in the Kelvin Hall, Glasgow, while the Royal Faculty of Physicians and Surgeons of Glasgow gave an exhibition on "Glasgow in the History of Medicine," and an exhibition by the Pharmaceutical Society was devoted to "Recent Advances in Pharma-ceutical Science." The Royal Photographic Society (medical group) gave an exhibition on "One Hundred Years of Medical Photography."

#### AN IMPROVED OPERATING TABLE

#### Controlled without interrupting surgical team

SHOWN for the first time at an exhibition, a new model of an operating table made by Allen & Hanburys, Ltd., Bethnal Green, London, E.2, is to be seen at the medical exhibition held in conjunction with the annual conference of the British Medical Association, Glasgow, July 5-9. The table, "model J," enables all major adjustments to be controlled from the head end without interrupting the surgical

team. The improvement has been achieved without any sacrifice of rigidity in any of its versatile range of positions. The table top is cast in corrosion-resistant alloy with a satin finish. The head flap is extendable and allows for fine angular adjustments or instant removal. All main gear mechanisms are enclosed, and cleaning and maintenance of the table are extremely simple.



#### **COMPANY NEWS**

Previous year's figures in parentheses

HICKSON & WELCH (HOLD-INGS), LTD. — Dr. T. Harrington, B.Sc., F.R.I.C., and Mr. F. N. Riding, D.F.C., T.D., have been appointed directors.

LEWIS & PEAT, LTD.—Group profit for 1953 is £130,793 (£137,236); tax, £54.532 (£102,812); net profit, £76,261 (£34,424). A final dividend of 75 per cent., making 100 per cent. for the year, is recommended (75 per cent. in 1952).

ASPRO, LTD. — Group profit for year ended March 31 is £996,411 (£867,967). Taxation, £423,409 (£360,839). Net profit of parent company, £459,370 (£346,601). The final recommended dividend is 13\frac{3}{4} per cent, less tax, on the ordinary capital as increased by a 100 per cent, scrip issue.

EVANS MEDICAL AUSTRALIA (PTY.), LTD.—The company has been formed to develop Evans Medical's interests in Australia which up to the present have been the responsibility of a branch of the parent company. Mr. J. A. Davies, who was manager of the branch, has been appointed managing director of the new company. The head office is in Sydney and there is a branch office in Melbourne.

SCHIMMEL & CO., INC., New York, and FREDK. BOEHM, LTD., London, have formed a company to be known as Schimmel Boehm, Ltd. The new company will combine the aromatic business of Boehm with the production in the United Kingdom of Schimmel specialities, for sale in the United Kingdom and the Commonwealth, and to areas where it may be advantageous to transact business in sterling. The new company is being administered from 19 Bentinck Street, London, W.1.

HOWARDS & SONS, LTD. — According to the preliminary statement the group profit for 1953 after all charges including taxation is £6,984 (against a loss of £34,099). United Kingdom taxation charged is £22,562 (£11,064). The ordinary dividend recommended is 2½ per cent., less tax, on £475,000 (nil). The trading results of Howards of Ilford, Ltd., showed considerable improvement in the latter part of the year but this was in part offset by a loss of £11,373 suffered by the Canadian subsidiary in the last quarter. The improvement in the trading of Howards of Ilford, Ltd., is being maintained in the current year and there are indications that the trading position of the Canadian subsidiary is improving.

#### **New Companies**

SWANAGE PHARMACY, LTD. (P.C.). — Capital £100. Subscribers: Margaret E. Crichton and Louisa F. Gill, 38 Southampton Street, London, W.C.2.

MEDICO, LTD. (P.C.). — Registered in Dublin. Capital £1,000. To manufacture surgical, pharmaceutical and hospital equipment, etc. Subscribers: Joseph Toner, 139 Lower Baggot Street, Dublin, and Frances Mulligan.

VITMIN, LTD. (P.C.).—Registered in Dublin. Capital £15,000. To manufacture or compound vitamin preparations or drugs for animals. Subscribers: James Maybury, 20 Shanowen Drive, Santry, Dublin, and Mary Sheehy. The first directors are not named.

#### **BUSINESS CHANGES**

PERIHEL, LTD., have removed to 27 Rabbit Row, London, W.8.

THOMAS MARNS, LTD., are removing to Green Lane, Hounslow, Middlesex, on July 24.

FENWOOD PRODUCTS, LTD., have removed to 1 Duke's Yard, London, W.1 (telephone: Mayfair 0997).

MR. RICHARD KEARNEY, M.P.S.I., has acquired the business of Mr. M. Costello, L.P.S.I., at 5 Main Street, Clondalkin, co. Dublin.

#### **Appointments**

MONSANTO CHEMICALS (AUSTRALIA), LTD.—Mr. P. A. Singleton, managing director, Monsanto Chemicals, Ltd., has been elected chairman in place of Mr. Edward A. O'Neal who has resigned. As chairman of the British company, of which the Australian company is a subsidiary, Mr. O'Neal will continue to take a close interest in its affairs.

#### **PERSONALITIES**

MR. EDWARD ANGLUM (assistant foreman, Howards of Ilford, Ltd.) has been awarded the B.E.M. (civil division) for gallantry shown when he and others fought a recent fire at the company's factory.

MR. HERBERT RIDLEY STORM, M.P.S., Worthing, Sussex, has been made the first honorary member of the Photographic Dealers' Association, in recognition of his work as a member of the Association's council for the past twenty years, during which he has served on various committees, notably the membership committee, of which he has been chairman for two years. He represents area No. 5, comprising Sussex and South-east Kent, on the P.D.A. council.

#### BIRTH

TAYLOR.—At the Royal Simpson Memorial Maternity Pavilion, Edinburgh, on June 29, to Ena, wife of Thomas Earl Taylor, M.P.S., 53 High Street, Cockenzie, East Lothian, a daughter.

#### DEATHS

BALFOUR.—Suddenly on July 1, Mr. John Edward Balfour, M.P.S., 26 Blinkbonny Road, Edinburgh, 4, aged forty-eight. Mr. Balfour had been employed by Boots, Ltd., for thirty-four years. During the past thirteen years he had been manager of the day-and-night service branch in Shandwick Place, Edinburgh. Mr. Balfour was formerly a member of the committee of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society.

BRAZIER.—At the Bolingbroke Hospital, London, on June 26, Mr. Frederick Thomas Brazier, M.P.S., 50 Foulser Road, London, S.W.17, aged sixty-eight. Mr. Brazier was apprenticed to Messrs. Reid & Donald, Perth, and after further experience in Edinburgh and London qualified in 1909. He later joined Messrs. John Bell & Croyden and was manager of the pharmacy until 1923 when he purchased the business of Messrs. Rouse & Co., Wigmore Street. He was there until his retirement in 1949.

CRAFT. — On June 27, Mr. Bert Craft who was employed by Ilford, Ltd., for over forty-five years. Mr. Craft joined Thomas Illingworth & Co., Ltd., in 1904, and in 1916 became a representative covering North London, retiring at the end of 1949.

ELLISSON. — On June 27, Mr. James Bradley Ellisson, Brewood, Staffs, aged eighty-three. Mr. Ellisson qualified as a chemist and druggist in 1891.

GOODALL. — At his home in Wilmslow, Ches, on June 27, Mr. Frederic Leathley Goodall, M.Sc., F.R.I.C. Mr. Goodall was joint managing director of Geigy Co., Ltd., Manchester. He had been with the company for over thirty years.

HORSFIELD.—At his home, Swanland House, Swanland Avenue, Bridlington, Yorkshire, recently, Mr. Frank Horsfield, aged nincty-two. Mr. Horsfield qualified as a chemist and druggist in 1883. He had lived in Bridlington since his retirement from business as a chemist in Leeds.

INMAN. — In Shrewsbury, Salop, recently, Mr. Leonard Inman. Mr. Inman was a member of the firm of Thomas Inman, surgical dressings manufacturers, Oldham, Lanes.

LEWIS. — At his residence, 9 The Parade, Whitchurch, Cardiff, Glam, on July 4, Mr. David Evan Lewis, M.P.S., aged eighty-three. A native of Cardigan, Mr. Lewis in 1898 opened a business at Mardy, Glam (now carried on by his son, Mr. D. H. Lewis, M.P.S.). Mr. Lewis was for many years treasurer of the Pontypridd and Rhondda Valley Branch of the Pharmaceutical Society.

SCOBIE.—On July 2, Mr. Lawrence Scobie, 42 St. Clair Terrace, Edinburgh, 10. Mr. Scobie qualified as a chemist and druggist in 1898, and was in business at 8 Broomknoll Street, Airdrie, for many years before his retiral in 1934.

TAYLOR.—On June 26, Mr. Joseph James Foster Taylor, M.P.S., Taylors Pharmacy, Showell Circus, Wolverhampton, Staffs. Mr. Taylor qualified in 1921. He was in business in Wolverhampton for twenty-one years, coming there from South Yardley, Birmingham, where he had commenced business on his own account after a short period in Great Yarmouth managing the business of the late Mr. H. E. Goddard, Northgate Street, Great Yarmouth. Mr. Taylor was the first chairman of the Staffordshire and Dudley Regional Group of the Pharmaceutical Society, chairman of the Wolverhampton Branch of the Society in 1951 and 1952 and secretary for the past sixteen years. He had been a member of the Wolverhampton Pharmaceutical Committee since 1948.

#### IN PARLIAMENT

#### By a Member of the Press Gallery, House of Commons

IN the committee stage of the Finance Bill on June 28 MR. F. W. MULLEY raised the question of the collection of articles into one package, in which event, if one article were tax-free and another were taxable at 25 per cent., when put together in a case they bore a tax of 25 per cent. That was a great disincentive to firms that tried to display their goods in the most attractive form.

MR. J. A. BOYD-CARPENTER (Financial Secretary to the Treasury) replied that it might well be that to assemble articles in a collection might attract a higher rate, and the Government had been trying to deal with anomalies. Both the Chancellor and he would note particular and special points raised in the debate.

#### Fungicide Trials

MR. HEATHCOAT AMORY (Minister of State, Board of Trade) told MR. P. WELLS on June 29 that he understood that S.R. 406 was available only from the United States and that it had not yet been proved in large-scale trials to be an effective fungicide under United Kingdom conditions. In order, however, to enable its efficiency to be tested, import licences for limited quantities had been issued during the past eighteen months and the Board of Trade was prepared to consider further applications for licences to import the material for experimental purposes.

#### **Drugs for Private Patients**

MR. S. HASTINGS asked the Minister of Health whether in cases in which cortisone, ACTH and other drugs in short supply were prescribed by doctors for their private patients, he would insist that records were kept and made available to his officers.

MR. IAIN MACLEOD (Minister of Health) in a written answer on July 1 said that records of the amounts supplied to private patients and the conditions from which they were suffering were already being made available to his officers.

#### Linstead Committee's Report

MR. ROBINSON asked the Minister of Health when he received the report of the Linstead Committee on Hospital Pharmaceutical Services and when it would be published.

MR. IAIN MACLEOD (Minister of Health) in a written reply on July 1: This report was made to the Central Health Services Council and received by them in December 1953. The Council advised me on December 8, 1953, in accordance with the recommendations of the Committee and also drew my attention to the comments of various other committees of the Council on it. An extensive summary of the report will appear in the annual report of the Central Health Services Council for 1953 which will be published in a few days.

#### Effect of Chemicals on Potato Flavour

SIR THOMAS DUGDALE (Minister of Agriculture) told LIEUTENANT-COLONEL

M. LIPTON on July 1 that tests had been carried out at the Rothamsted experimental station into the effect of chemical fertilisers on the cooking quality and flavour of potatoes. Research had also been carried out by leading firms into the effect of certain soil insecticides on the flavour of potatoes. The need for additional work was being considered. The Agricultural Improvement Council had recently appointed a subcommittee to consider the question of tainting in vegetables, generally from the use of chemicals applied to the soil.

#### Prescribing of Cohen List Drugs

MISS P. HORNSBY-SMITH (Parliamentary Secretary to the Ministry of Health) told MR. A. BLENKINSOP in a written reply on July 1 that a doctor could prescribe any drug or medicine which he considered necessary for the treatment of a patient, but the Joint Committee on Prescribing classified Algipan as including drugs which, in their view, had not been proved of therapeutic value. Doctors were therefore being asked not to prescribe it unless satisfied that it was necessary in a particular case. The cost to the National Health Service was 4s. 6½d. There was no identical standard preparation, but the cost of a similar quantity of a B.P.C. oiniment commonly used for the same purpose was 2s. 1d.

#### Food and Drugs Amendment Bill

DR. CHARLES HILL (Parliamentary Secretary to the Ministry of Food) told LIEUTENANT-COLONEL M. LIPTON on July 5 that a revised draft of proposals for food hygiene regulations was circulated to representative organisations on May 31. It was too soon to say what changes, if any, would result, as many replies had still to come in.

#### Trade with China

SIR L. PLUMMER asked the President of the Board of Trade on July 6 if he was aware that while Britain was refusing permission to export acetone and acetic acid to China, Western Germany was free to export such goods. Why were plastic devices included in the security list? Mr. Heathcoat Amory (Minister of State, Board of Trade): Those items may be of military value.

MR. G. H. C. BING: Surely the Minister is aware that, if not from the British Zone in Germany, at least from the American Zone, acetone and acetic acid, for example, are being exported every day to China, and that when the Minister was enforcing the ban on antibiotic drugs in China orders amounting to millions of pounds were fulfilled by Western Germany? MR. AMORY: I have no evidence of any difference in treatment of exports from Western Germany as between the British Zone and the American Zone.

#### Fertilisers Scheme

The Fertilisers (England, Wales and Scotland) Draft Scheme, 1954, and that for the Northern Ireland scheme were

approved in the House of Lords on June 29. The Orders extend for one year the current schemes, Lord Carrington (Joint Parliamentary Secretary, Ministry of Agriculture) said that the rates for nitrogen would go up and the rates for phosphates, other than basic slag, would go down, Since the production grant was introduced by the Government in 1952, the consumption of nitrogen increased in 1952-53 by 27 per cent, and the use of phosphates by 40 per cent., and although the figures for 1953-54 were not available there had undoubtedly been further increases.

The Pharmacy Bill was reported from the Joint Committee on Consolidation Bills without amendment and recommitted to a Committee of the whole House of Lords on July 1 (see C. & D., May 29, p. 547).

#### LEGAL REPORTS

#### Lint by False Pretences

AT Sheffield, recently, Mrs. Edith Crossland was ordered to make restitution of £2 10s. 6d. and to pay £2 17s. costs in a case in which she had pleaded guilty to four offences of obtaining medical requisites worth 10s. 6d. by false pretences. She asked for a further twenty-two similar cases, involving £15 12s. 9d., to be taken into consideration. For the prosecution it was said that Mrs. Crossland was entitled to lint and disinfectant under the National Health Service, but had obtained additional supplies by saying she was collecting prescriptions for other patients. She sold the lint and other medical supplies because she was short of money, and it had been used to make nightgowns, curtains and cushion covers. She was put on probation for two years.

Thefts from Employers Admitted ON July 5, Colin McRae Donaldson, M.P.S., aged thirty-nine, of no fixed abode, admitted stealing money from his employers and spending most of it on drink. The magistrates remanded him in custody for a probation officer to make inquiries regarding hospital treatment for him. Donaldson admitted stealing £30 from his employers, the Coventry and District Co-operative Society, Ltd., and asked the bench to take into account a further theft of £53. A detective-sergeant said: "It is a pathetic casc. He is an educated man and his wife tells me this gin drinking has been going on for about ten years. The detective told the Court that Donaldson was manager of a pharmacy department at Birmingham Road. As a result of a check the superintendent chemist found a deficiency. Donaldson, told to report, absconded. In the premises were found twenty empty gin bottles, a whisky bottle and some beer bottles. He was arrested in London some weeks later and in a statement said that he had taken money from the till, first as a loan, intending to pay it back. He realised, he said, that when the deficiency was found it would mean he would be discharged, and he took some money and went to London. There he went to Lords cricket ground where he could get a drink all day.

#### **NEW PRODUCTS AND PACKS**

Additional Sizes.—Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1, have made available their Penotrane dusting powder in 25-gm. sprinkler tin and their Penotrane tincture in 100-c.c. bottle.

Antifungal Preparations. — Roche Products, Ltd., 15 Manchester Square, London, W.1, announce the introduction of an antifungal preparation, Asterol, in the form of an ointment and dusting powder, each containing 5 per cent. The powder is issued in a 30·gm. and the ointment in a 25-gm. container. Asterol, 6-(2-diethylamino-ethoxy) - 2 - dimethyl - amino - benzothiazole dihydrochloride, is claimed effective against a wide variety of fungal skin, hair and nail infections.

Organic Iron Tablet.—Calmic, Ltd., Crewe Hall, Crewe, Ches, in introducing a new organic-iron tablet, Ferromyn (ferrous succinate), claim that it is the "most significant advance" towards ideal oral iron therapy. Controlled clinical trials showed an iron utilisation factor of 42 per cent, against 14 per cent. with ferrous sulphate and 28 per cent. with ferrous gluconate. Ferromyn is issued in bottles of 100 and 1,000 tablets, each containing 150 mgm, ferrous succinate.

Liquid Denture Cleanser for London.

—After a remarkable success in the



north of Eng-land, PRO liquid denture cleanser is now being marketed in London by the Lambert Pharmacal Co., Victoria Road, South Ruislip, Middlesex. PRO is claimed to clean dentures remove a n d stains on them more efficiently than any other liquid or powder, owing to the high concentration of its active ingredi-

ent. PRO also removes all trace of "denture odour." It is simply rubbed on with a piece of cotton wool and then rinsed off—a two-minute routine. PRO is available in two sizes.

A Preparation of Trypsin.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, are now marketing Trypure, a highly purified preparation of the enzyme trypsin manufactured by Novo Terapeutisk Laboratorium A/S, Copenhagen, Denmark. In the United Kingdom, Messrs. Evans are the sole distributors, and the product is available to hospitals only. Trypure is presented in boxes containing one 20-mil vial of Trypure (50 mgm. dry powder) and one 20-mil vial containing 15-mil sterile semi-isotonic phosphate buffer (pH 7·1) for dissolving the powder. Trypure has a proteolytic activity of 22/25 Anson trypsin units per gm., and contains no chymotrypsin, carboxypeptidase salts or inactive trypsin.

Methscopolamine with Phenobarbitone.—Upjohn of England, Ltd., 4 Aldford Street, London, W.1, announce the introduction of Paminal elixir, a combination of Paminal elixir, a combination of Pamine (methscopolamine bromide) with phenobarbitone designed to provide a flexible dosage of the alkaloid with a judicious measure of sedation for the treatment of peptic ulcers and related complaints of the gastro-intestinal tract. Conditions responding favourably to Paminal elixir include, in addition to peptic ulcer, the management of chronic hypertrophic gastritis, pylorospasm, biliary dyskinesia, acute and chronic pancreatitis, hypermotility of the small intestine, spastic colon, mucous colitis, irritable bowel, diverticulitis, ureteral and urinary bladder spasm, hyperhidrosis and anxiety. The product is issued in a 16-oz. bottle. Each 5 c.c. contains pamine bromide, 1'25 mgm., and phenobarbitone, 8'00 mgm. The average adult dose is 1-2 teaspoonfuls three to four times daily.

Automatic Injector Ampoules.—Within the next few weeks hospitals are being circularised by Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, with information about their new Ampins. Ampins consist of neutral glass ampoules containing sterile solutions and combined with sterile needles into complete pre-sterilised and disposable injection units. They have been officially approved and adopted by the medical departments of the United States Forces and American Red Cross blood-donation service and accepted by the pharmaceutical council of the American Medical Association, They are supplied to government medical authori-

ties in many other countries. Ampins are claimed to be the first pre-sterilised automatic injectors to meet all official requirements; the solution to be injected is contained under pressure of inert gas. The connecting tube is made of plastic and the needle of stainless steel. Ampins provide the only completely pre-sterilised system of injection that functions instantly, irrespective even of barometric conditions. There is no danger of contamination, since the needle cover is removed just prior to inserting the needle into the tissue. Messrs. Cuxson, Gerrard offer to supply qualified medical men with boxes of three demonstration Ampins of water at 2s. each, post free.

Sunproof Cream.—A new speciality by Westbrook Lanolin Co., Daisy Bank, Duckworth Lane, Bradford, under the title Sunproof cream, is now being distributed to retailers. The product is non-greasy and waterproof, and affords an excellent powder base for any type of skin. It is normally effective with one application. Sunproof cream is issued in a cartoned tube.

Hair Brightener. — French & Scott, Ltd., 4 Curzon Place, Park Lane, London, W.1, have introduced French Accent, "a new kind of hair streak in liquid form." French Accent is applied to the hair with its own little brush. It is available in "quicksilver," "demon gold" and "tiger bronze" shades.

### German Chemists' and Druggists' Exhibition

THE German trade exhibition for Chemists and Druggists, "Dedrofa 1954," is being held at Duesseldorf, July 15-18.

#### THE MAKING OF AN INFANT FOOD

#### Precautions taken at a factory at Wincanton, Somerset

THE care necessarily devoted to the manufacture of dried milk products for infant feeding is well demonstrated at the Wincanton, Somerset, works of Cow & Gate, Ltd., Guildford, Surrey. The company have been manufacturers of dried milk products for over fifty-three years, and claim that thirteen royal babies have been fed on Cow and Gate foods.

The raw milk comes from 450 farms in the surrounding countryside. It is brought in churns to Wincanton, where representative samples are at once taken and tested for freedom from bacteria. The tests, carried out in a small laboratory adjacent to the reception dock, are based on the decolorising action of bacteria on methylene blue and rosazurine dyes. Any consignment not up to the requirements is rejected. The accepted milk is tipped by the white-overalled and capped workers into weighing pans to provide accurate records of quantities received from each farm. Before being returned to the farms the empty churns and lids are washed, steam sterilised and dried with hot air. Cleaning of the milk by a centrifugal machine removes suspended matter such as cellular debris. After cooling,

to check growth of bacteria, the milk is assayed for percentage of fats and solids, and adjusted to a constant level. As a precaution against "watering-down," samples found low in fat or solid content are subjected to a freezing-point test (on the principle that milk, whatever its percentage composition of fats and solids, always freezes at approximately -53° C.; any variation from that constant thus indicates adulteration). The standardised milk passes to the powdering machines where steam-heated rollers evaporate the water, and the resulting thin paperlike film is broken up, powdered and conveyed in large drums to the packing room, where it is automatically weighed and mechanically packaged and sealed. Samples of different types of products are kept for measured periods of time under varying conditions of storage. A small room kept at a permanent high temperature is used as a check on rates of deterioration. In the company's main laboratories is carried out, in addition to tests on the milk itself, the analysis of samples of all preparations used in the manufacture of modified dried milk and other products made by the company.

#### TRADE NOTES

In Britain from Japan.—Mr. I. A. Palluth, general manager of the Ameri-



can Drug Corporation, 804
Fukoku Building, Tokyo,
Japan, is at present in Britain on a round - the world business trip by air. His itinerary includes France, England and the United States. During his visit Mr. Palluth is seek-

ing new products to take up as agent.

Bonus Offer.—B. Hooper & Co., Ltd., Chemists, 6 Railway Place, Fenchurch Street, London, E.C.3, are offering, on direct orders only, a bonus of thirteen to the doz. for one doz. and fourteen to the doz. for three doz. and over Ilox eye lotion.

Available for Immediate Delivery.—B.G.P. (Cosmetics), Ltd., 37 Chesham Place, London, S.W.1, sole importers from France of Arcancil mascara (in nine shades), point out that they have substantial stocks of the product available in London.

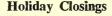


DISPLAY OUTERS: Left, Counter display unit holding one doz. Delavelle Blue Orchid stick Cologne in gilt-topped plastic container. The makers are Delavelle, Ltd., 38 Orsman Road, London, N.1. Right, New display box and showcard for the Lip-liner cosmetic pencil of Alfred Franks & Bartlett Co., Ltd., 226 Gray's Inn Road, London, W.C.1.

**Discount Increased.** — Ronson Products, Ltd., 352 Strand, London, W.C.2, announce that they have increased the discount on Ronson Shavers from 25 per cent. to 30 per cent. The discount is deducted before purchase tax is added.

Blade peners, Ltd., 56 Godstone Road, Kenley, Surrey, are makers of the Keen-edge safety-razor blade sharpener, which is claimed to give at least fifty good shaves from a single blade. The

sharpener is built into a plastic case and attractively boxed. Display material is available, and the product is supported by advertising in the national Press.



S. SIGAL & Co., LTD., manufacturing chemists, Dunboyne Street, London, N.W.5, arc closing July 9-26.

The factory and warehouse of the Scholl Mfg., Co., Ltd., 182 St. John Street, London, E.C.1, are closing July 10-26. No goods are being dispatched during that period.

FRED HURTLEY, LTD., Keighley, Yorks, manufacturers of the Litesome supporter, arc closing for their annual holiday from July 24 to August 9. A skeleton clerical and packing staff will be on duty to deal with urgent inquiries and orders.

The works of ERNEST JACKSON & Co., LTD., Crediton, Devon, are closing for the annual holiday from Friday, July 30, to Tuesday, August 17. During that period only a skeleton staff will be on duty to deal with urgent orders.

The works of Harker Stagg, Ltd., Emmott Street, London, E.1, are closing on Friday evening, July 30, and reopening on Monday morning, August 9, During that period supplies of the company's proprietary products will be obtainable from William Martindale, Ltd., 14 Bruton Place, New Bond Street, London, W.1.





PACKAGING AWARD: The case in which the Kub electric dry shaver is in future being sent out was awarded first prize at a National Cutlery Packaging Exhibition, held recently in Sheffield. The certificate was presented to Remploy, Ltd., the designers, by the Master Cutler. The box contains an inset into which the shaver fits, and the electric wire from the shaver can be wound round a special base piece set beneath the shaver. The inside of the box is finished in a red plush with lettering in silver and gold, the exterior in a mottled silver-grey. The makers of the instrument are Chilton Electric Products, Ltd., Hungerford, Berks.

Tape Recorders.—Jonathan Fallow-field, Ltd., 74 Newman Street, London, W.1, have been appointed official factors of Grundig tape recorders to the photographic trade. Messrs. Fallowfield's representatives will be carrying the machines, and can give demonstrations to dealers.

Corrosion Congress.—The Corrosion Congress, 1954, is being organised by the Working Party on Corrosion in Frankfurt, Main, on November 11 and 12. The Dechema (Deutsche Gesellschaft für chemisches Apparatewesen) is carrying out the necessary preparatory work, and will hold its annual meeting at the same time.

SEASONABLE COUNTER DISPLAYS: Packs and display units of Dygon Mothmaster carpet cleaner (recently warded Seal of Good Housekeeping Institute) and Dygon "safe bleach" colour and stain remover for all fabrics, especially wool, silk, nylon, rayon. The manufacturers of both specialitics are Mayborn Products, Ltd., Berryman's Lane, London, S.E.26. Mothmaster

cleans and moth-proofs carpets in one operation. It is useful also for motor-car upholstery, rugs, seat covers, woollen blankets and garments, etc. Dygon contains no chlorine-producing chemicals and is "gentle to hands."





## INSTRUMENTS AND APPARATUS

Interchangeable-stopper Measuring Flasks.—E-mil stoppers fitted to E-mil measuring flasks, wide-neck measuring cylinders, separating funnels, reagent bottles, etc., are claimed by the makers, H. J. Elliott, Ltd., Treforest Trading Estate, Pontypridd, Glam, never to "freeze" or leak.

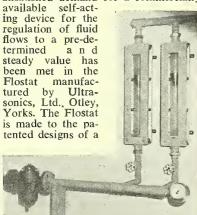
Pipetting Without



Mouth. - The Propipette, illustrated at left, little rubber appara-tus for automatic pipetting issued by Labo-Moderne, 6 Rue de la Vrillière, Paris, 1-er, France, is marketed in Great Britain by Hoslab, 12 Charterhouse Square, London, E.C.1. The Propipette delivers liquids

in precise quantities hygienically and safely and is, of course, eminently suited for use with corrosive, toxic, infective, odorous or coloured liquids. It can be used with any laboratory pipette and is used with one hand only. The bulb is held in the hollow of the right-hand and air expelled by pressure of thumb and forefinger. Valve S is then pressed to let in liquid to the required level. When valve E is pressed the liquid is released at controlled speed.

Regulating Fluid Flow.—A hitherto unsatisfied demand for a commercially



The Flostat is at the left. At the right, flow meters demonstrate the constant flow.

member of the chemical engineering staff of Leeds University. Its advantage lies in the comparatively low capital outlay it involves in providing control comparable or superior in quality to that of motor-acting devices. Moreover, it does not require highly specialised personnel for adjustment or maintenance. Flow control of liquids is generally rapid. In the control of gases the Flostat offers quick response instead of the time lags experienced with motor-acting mechanisms,

Forced-air Circulation Oven.—A recent addition to the range of low temperature ovens made by the General Electric Co., Ltd., Kingsway, London, W.C.2, is an easily transportable unit intended for laboratory work. The oven incorporates all the features re-

quired to permit checking and controlling of movement of components during tests involving long periods of heat treatment. It is of standard double-case construction with full-length door at the front. Forced air is provided by a fan in the roof.

#### PHOTOGRAPHIC NOTES



A Smart New Camera.—The G.B.-Kershaw 110 camera illustrated here is a new model now being distributed by G. B. Equipments, Ltd., 37 Mortimer Street, London, W.1. The 110 is a snapshot camera with f/11 fixed-focus

lens and built-in optical viewfinder. It has a leatherette covered, chromed pressed-steel body, self-erecting, with synchronised flash fitting. The camera is designed to take twelve exposures on 120 film.

Flying-spot Microscope. — Cinema-Television, Ltd., Worsley Bridge Road, London, S.E.26, are showing at the Manchester Electronics Exhibition, July 14-20, a flying-spot microscope, the second prototype developed from the original model shown last year and incorporating many new features. The equipment permits any normal microscope slide to be viewed on a cathode ray tube with the advantages over normal microscopical techniques of greater magnification and resolution; variable contrast of specimen by electronic control; large audience-viewing facilities; and, at the same time, with provision for automatic counting and sizing, etc.

#### INFRA-RED AS AN ANALYTICAL TOOL

A new spectrometer at a comparatively low cost



THE use of infra-red techniques was greatly developed during the 1939-45 war in the course of intensive scientific endeavours to achieve superiority over the enemy. Since the war their application to peace-time purposes such as the analysis of drugs and pharmaceutical preparations has been limited by considerations of cost. Recently work done by Sir Thomas Merton at the National Physical Laboratory has resulted in the development of a method of producing diffraction gratings at a comparatively low cost, making it possible to use a different approach in designing an infra-red control instrument. The outcome is seen in an instrument marketed by Mervyn Instruments (Mervyn Sound & Vision Co.,

Ltd., Woking, Surrey). The Mervyn infra-red spectrometer, here illustrated, has a monochromator, developed by the National Physical Laboratory, that has a resolving power comparable with that of the more expensive prism-type instruments but achieved with unfigured optics and simple slits. Instead of the fore prism there are special filters, and the sensitive element is a lead selenide cell. The new instrument, in the words of the manufacturers, "opens up a new era of the application of infra-red techniques to laboratory and industrial-control problems." Uses in the pharmaceutical industry include, among others, the analysis of hydrocarbons, perfumes, lipsticks and insecticides.

#### PRIZE-WINNING AMERICAN PACKAGES

#### Judges give reasons for their awards

BELOW are shown, along with the comments of the judges, some of the award-winning packages in the 1954 contests organised by the Folding Paper Box Association of America, and by the (United States) National Paper Box Manufacturers' Association.

TOP LEFT: A clever new box for single dose vials of a drug. Made by the Dennison Manufacturing Co. for the Wilson laboratories division of Wilson & Co., the box is a full telescope type turned on end. The lid is cut through near the centre of its sides and scored at the top to make a hinged opening at one end. The base is glued to the lid and also hinges open at the end. A sealing tab assures that the contents have not been tampered with. Three colours of boxes are used to help physicians identify different dosages.

SECOND LEFT: A compact and attractive "shipper" which acts as a dignified advertisement for a professional

product. On the salmon-coloured cover a white window remains unprinted and available for a postal address. A handsome black platform with special holding tabs keeps two tubes of cream intact during any rough postal handling. The package was made for the Geigy pharmaceuticals organisation by the Kiernan-Hughes Co.

THIRD LEFT: Here is an unusual promotional idea distributed by direct mail by the Culligan Water Analysis Laboratory. It is a kit that allows one to determine the hardness of the water in the home, factory, or office. The problem was to protect three relatively fragile bottles, one empty and the other two filled, sufficiently to be able to send them through the post. Manufactured by the Container Corporation of America, the one-piece "mailer" produced has supporting inner walls and is composed of solid sulphate board for weather resistance.

UPPER RIGHT: A reputation-building sample kit, neatly compartmented and well constructed. The use of a double lid allows application of an elastic strip to hold descriptive literature out of the way for full view of the products. Component parts of the box are delivered assembled. The box was made for Smith, Kline & French Laboratories by the Walter P. Miller Co., Inc.

LOWER RIGHT: An excellent example of the boxmaker's art is found in this Hazel Bishop nail-polish display. Although virtually pilfer-proof, the bottles are easily removed by retail clerks at the point of sale Protective support and the outside container have so far resulted in not one single claim for breakage. The newspaper-print-style insert uses bold black, white and red, and commands attention. The boxmaker was the Trenton Folding Box Co.





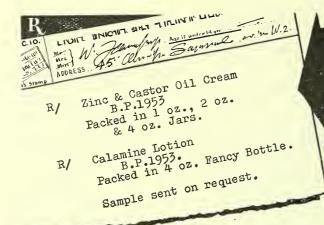






Top left: Rigid carton for single-dose vial of corticotrophin gel-Second left: Rigid container for postal sample to physicians. Bottom left: Kit for home determination of water hardness. Top right: Manufacturer's sample kit with provision for descriptive literature.

Bottom right: Pilfer-proof and breakage-proof outer for nail polish containers.



#### Quantity Discount Prices. Zinc and Castor Oil Cream B.P. 1953. Free from P.T. List 3 doz. 6 doz. 12 doz. 24 doz. 60 doz. 5/9 5/6 5/3 5/-

l oz. Jars 6/-2 oz. Jars 9/-8/9 8/6 8/3 8/-4 oz. Jars 14/3 13/9 12/9 12/3 13/3 Calamine Lotion B.P. 1953. Free from P.T. 4 oz. Bottles 8/-7/6 7/-6/9

Cream of Calamine (Skuse) (Antiseptic) 4 oz. Bottles 13/- 12/6 12/-11/6 P.T. chargeable at 3/1 doz.

839-841 HARROW ROAD, LONDON, N.W. 10.

B.P. 1953 Revised Formulas

#### SUMMER SPECIALITY

Cream of Calamine (Antiseptic)

Calamin 10.0; Paraff. Lig. 5.0; Antiviray 5.0; Chlorcresol 0.2; Vehicul Ad. 100.0.

For the relief of Sunburn, Chafing and Midge Bites. The ANTIVIRAY enables this product to be used prior to exposure to the sun's rays.

Packed in 4 oz. W.M. Bottle.

Phone: LADbroke 2201-2-3.

Operation of Quantity Discount Prices. The prices shown under the various quantity headings can be taken for that product in any combination of sizes. Terms: less 2½% 14 days. Free delivery VAN area.

### **Manufacturing Chemists**

Grams: Skudent (Harles) London.

regularly read the unsolicited testimonials praising Nurse Harvey's Mixture featured in the advertisements which are still appearing in the women's magazines. Are you getting your share of this important business? See that you have ample stocks of this well-known old-fashioned baby remedy. Display material

O. Scruton & Co. Ltd. Barker Lane, York

request to



Manufacturers of 'OAK BRAND' FINEST QUALITY TONGUE DEPRESSORS AURAL PROBES, POSTAL BOXES, Etc.

Wholesale Enquiries to: J. HATHWAY & SONS (BERMONDSEY) LTD., 36 RAYMOUTH ROAD, BERMONDSEY, S.E.16 Telephone: BERMONDSEY 1186/7'

### MAYFAIR Vacuum jug

Interchangeable plastic-topped cork. Non-drip top. Leak-proof seal. Stands upside down for complete drainage. Shock resistant. Plastic moulded case. In paster shades, ebony black base. No. 991 (16 ft. ozs.) 14/6 No. 993 (36 ft. ozs.) 22/6 Keg. De ign N . 867860 British Patent No. 659499/659630

From your Wholesaler, or write to: L. REES & GO. LTD. (Isovac Division), 31/35 Wilson St., E.C.2 (Mon 2651)



BELTS, TRUSSES, HOSIERY, Stock sizes or made-to-measure by specialists. TRADE ONLY

J.H. HAYWOOD LTD. WARSER GATE. NOTTINGHAM. GRAMS: "APPLIANCE. PHONE: 46691, 45164, 47659.

#### INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

CASEDROM PASETIN BENACA (mouth wash) BARKER'S "liq. of life" SUPER GLEAMAX nickel-plating salts KERATALYTIC MECABLITZ electronic flash unit



For Retailer, Wholesaler and Manufacturer
ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565
TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

#### Additions to the Poisons List

OFFICIAL notice has been given that Statutory Instruments are in course of preparation to give effect to changes in the Poisons Rules and additions to the Poisons List as recommended by the Poisons Board. The changes will require the addition to the Poisons List of two substances: laudexium and its salts to Part I, and sulphotepp to Part II. Laudexium is the approved name for the muscle-relaxing substance developed by Allen & Hanburys, Ltd., under the name Laudolissin. It has always been treated as a First Schedule substance by its manufacturers, so that its addition to the List and to the First Schedule to the Rules will not involve any practical difficulties. A more far-reaching development is the proposal, foreshadowed in the notice, to exempt from the restrictions of the Act and Rules antihistamine preparations intended for application in the nose and eye and containing not more than 1 per cent. of antihistamines. Those preparations will not in future be regarded as poisons and will be freely saleable when the change takes effect. Preparations such as Antistin-Privine solution (Ciba) and Benefedrin (P., D. & Co.), etc., will then no longer be S.4, but it is to be noted that the relaxation is not being extended to sulphonamides issued for intranasal and ophthalmic use, such as Sulfex (Menley & James) or Albucid eye drops (Schering), and similar preparations. Selective differentiation in the law as it applies to substances according to the part of the body to which they are to be applied is no doubt founded on sound considerations as to the proper safeguards to be applied. It is nevertheless extremely confusing to all who must handle those preparations. It seems that these matters may come to be considered in a piecemeal fashion according to the weight of the representations made in respect of any particular preparation, and that the broad principles of poisons legislation are being submerged in the detail of their application. The case for separating the law relating to medicines from that relating to poisons is thus further supported.

The changes proposed in respect of Part II poisons also involve matters of detail. They are again of considerable interest. Sulphotepp, which is to be added to the phosphorus compounds included in the list is, as its name indicates, a development from tetraethyl pyrophosphate (TEPP) and is marketed by Murphy Chemical Co., Ltd., Wheathampstead, in the form of a greenhouse fumigant. Its proposed inclusion under Rule 14 (2) (b) seems to suggest that it will be saleable only

by listed sellers to "trade or business" purchasers and if that is so the restrictions applied are more stringent than those applying to HETP and TEPP, which are not subject to that limitation. Another horticultural development dealt with by the changes lies in the reference to mipafox, a horticultural insecticide, "in the form of caps on sticks or wires," which are to be exempted so as to be saleable by listed sellers to domestic users. The articles referred to are presumably Isopestox Capsticks sold by Pest Control, Ltd., Cambridge. Those ingenious devices take the form of a small capsule at the end of a small stick which is inserted head downwards in the soil near the plant. The head or capsule contains the mipafox insecticide, which is taken up by the plant through the root system and sap stream to destroy the aphids and other pests. It is understood that those articles are available only in limited quantities this year and, of course, are recommended by the makers only for use as an individual application to flowers and ornamental plants as distinct from edible produce. No doubt the method will be developed for more general use, as it appears to have many advantages. Meanwhile the restrictions on the sale of Mipafox in this form are to be modified to permit the application of the device by all horticulturalists, professional or otherwise.

#### Twelve Years to Mature

The report presented to the Conference of Pharmaceutical Committee representatives on July 8 on the offer made by the Ministry of Health (C. & D., July 3, p. 17) may recall to regular readers of the C. & D. that a scheme on almost identical lines was outlined in a leading article in the issue of January 3, 1942.

The Ministry in its recent statement made reference to payments under the National Health Insurance system, and it was in connection with the submission of N.H.I. prescriptions that the C. & D. suggestions were made in 1942. At that time there were no payments on account to contractors. They had to wait a matter of eight or more weeks for a settlement of their bills. Hence the suggestion then made by the C. & D. that some payment on account should be introduced.

Below are given, for purposes of comparison, passages from the text of the C. & D. editorials and from the present offer of the Ministry:—

From N.P.U. "white paper." THE system of payment on account . . . was designed to ensure . . . that at no time was a greater amount of money outstanding to contractors . . . than would have been outstanding under the N.H.I. payments system. . The Ministry recognises that on a complete withdrawal of the payment on account system, the contractor chemist would be having to provide continuously the capital . . . for operating the service for an average of eight weeks. . . . In October . . . each contractor would receive a lump sum payment . . . sum payment . . . and in addition, on or about November 15, he would receive full payment for his September prescriptions. The and

From C. & D., 1942.1.

WHOLESALERS now are strict in the matter of credit . . . Insurance Committees still take an average of two months to repay the chemists' outlay. In present warconditions this is too long. The remedy is simple: Revive the method of a payment on account when prescriptions are delivered to the pricing bureau. Only one payment initial would be necessary, so simplifying Insurance Committee accounting ing. According to present procedure . . . January forms delivered in February are paid for in March.

If the average value of a prescription is about one shilling then a "safe" sum for the Insurance Committee to

lump-sum payment would be carried forward from month to month and would not be recovered by the Executive Council until the contractor ceased to provide N.H.S. pharmaceutical services, at which stage it would be recovered by deduction from the payment due to be made for the prescriptions dispensed in his final contract month.

This will be separately calculated for each contractor by the Executive Council. The average monthly value of the contractor's account (less the amounts he has received direct from the public for prescription levies) will be calculated over the twelve months ended March 31, 1954. The lump sum payment will be 50 per cent, of the monthly average payment, rounded to the nearest £1...

Only the lump sum payment would be made to each contractor.

Thus, starting with September 1954 prescriptions, the contractor would receive:-

(i) On or about October 15, the lump sum payment calculated on his own twelve monthly account for the year ended March 31, 1954.

(iii) On or about November 15, he would receive:-

(a) full payment of "priced" value of his September prescriptions less the prescription levies he had already received.

(b) A debit of the "lump sum" payment received in October.

(c) a credit of a "lump sum payment" for his Octo-

As (b) and (c) would

ber prescriptions.

Twelve years may seem a long time during which to await results from "casting one's bread upon the waters," but evidently you can't keep a good idea down. We are happy that the authorities have come round to our way of thinking, and confident that the scheme will be of permanent value to the proper functioning of the National Health Service and the confidence between contractors and their "employers," the State.

#### Packaging Pointers

Now that a Bill sanctioning commercial television has almost passed both Houses of Parliament, it becomes more than ever necessary to present packages so that they are readily identifiable in the shops after they have been seen on the screen. Clarity of design and typography are essential, and great care will also have to be exercised in the choice of colours, so that not only do they appear right in themselves, but their relative values do not greatly differ from the monochrome rendering on the television screen.

From the standpoint of the retail trade the significance of the package and counter display is certainly not going to become less important. The whole trend,

pay on account would be sixpence per form. If the chemist delivers who his December prescriptions by the third day of January receives on, say, January 14-with his cheque in full for November forms-an advance payment for December forms calculated at sixpence for each form submitted, he will then have been paid roughly the value of material supplied (as distinct from dispensing fees due) and the period of credit given to the Committee will have been substantially reduced. After that initial payment no further adjustment will ordinarily be necessary for, so long as a chemist delivers to the Bureau early in each month another bundle of prescriptions as security for the initial advance payment made to him, the Insurance Committee is safe in releasing later in the month a cheque for the full value of the prescriptions delivered one month previously. . Contractors resigning would receive as last payment value of last bundle less amount of initial advance. Insurance Committee would see that the number of prescriptions deposited each month was sufficient security for advance payment already made.

(concluded from column 1)

balance each other, the effect would be that in November and in each succeeding month he would receive payment in full for an earlier month's prescriptions; so long as he continued as a contractor he would have the "lump sum payment" in his hands.

in fact, is in the other direction and it is becoming increasingly accurate to refer to the pack as the "silent salesman." It is a welcome announcement, therefore, that the British Paper Box Federation is staging another paper-box and carton design competition (following upon the one they organised successfully last year). The Federation plans to accept entries for the contest between October 1 and 31, have them judged during November, and display the winners (possibly the entire range of entries) on a stand at the Packaging Exposition which opens at Olympia in January 1954.

In such a competition the category of packages found in pharmacies is of special interest, and it is of some significance that in the United States, in the two main packaging competitions of the year, selling aids for drugs, chemicals and pharmaceuticals featured prominently. Some of the successful entries, with the comments of the judges, are given on p. 35.

#### "Last of the Few, First of the Many"

THE importance of a new spectrometer described and illustrated on p. 34 is only partly that it facilitates the analysis of certain types of manufactured product such as lipsticks and insecticides. Behind it is a revolutionary change in outlook on instrument production that bids fair to usher in a new era of routine process control in factories, both in Britain and America. It would appear that the manufacturers have given this country a slight lead, but on the other side of the Atlantic the trend, as here, is towards inexpensive recording instruments that can provide the means of process control by instrument, thus reducing factory man-hours. In so far as the new spectrometer provides the link between the present outlook of producing sensitive instruments of wide range and high cost and the new one of designing low-cost instruments completely to the needs of particular users it is, in the words of one of its exponents, "the last of the few and the first of the many.'

#### CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

#### AN ANOMALY

SIR,—The attached cutting from a local evening paper illustrates once again the system under which chemist contractors are held responsible for goods bought under conditions of warranty, and which, when tested, do not answer the official requirements. It is time, surely, for this anomaly to be altered and a concerted effort made by all whose interests are involved to charge from the contract of the co interests are involved to change present conditions.

CONSTANT READER [The cutting deals with cases reported on p. 25.—Editor.]

#### CLINICAL THERMOMETERS

SIR.—We have been reading with interest the detailed report on the electronic clinical thermometer invented in America (C. & D., July 3, p. 5). We had already received certain technical details of this. We note that you have included a graphy that this interpolation. included a remark that this instrument is accurate to within  $1/10^{\circ}$ , "whereas conventional thermometers are accurate only to within  $4/10^{\circ}$  and  $8/10^{\circ}$ ." You should, of course, know that every clinical thermometer made in this country has to be within 2° F., or 1° C., before it can be passed by the National Physical Laboratory, and in actual practice errors never exceed 1° F. S. BRANNAN & SONS, LTD. CLEATOR MOOR

## AGRICULTURAL CHEMIST

By STOCKMAN

JULY 1954 marks not only the end of food rationing in Britain, but also the introduction of a new era in agriculture. Farmers have again to find the best market for their goods, and to fill the dual rôle of producer and salesman in order to get the best out of a free market. They anticipate a stiff fight to maintain the relative prosperity enjoyed for the past ten to fifteen years. If veterinary chemists have a positive contribution to make to the agricultural industry, now is the time to prove it. By training and habit pharmacists are in the best position to help in the distribution and application of drugs and chemicals, and it is up to those in agricultural areas to take advantage of their assets so as to compete with the many other distributive traders who are selling medicines, weedicides, insecticides, etc., to the farmers.

There is nothing better than a window display of appliances and instruments to attract the eye of the farmer. Foot-rot shears for sheep, and hoof trimmers for cattle appear to be gaining in popularity, and are often more easily sold than replaced. Many farmers who intend to make use of the Fatstock Marketing Corporation are trying to obtain closing pliers for ear-tagging their stock. The Corporation has been set up by the National Farmers' Union to ensure a fair price for the meat producer, and it guarantees stated minimum prices before purchase. If the minimum is exceeded, the benefit is passed back to the producer—hence the need to identify each animal. However, the Corporation alone issues the ear tags and clinching pliers, and the manufacturers will issue them to nobody else.

#### Moisture Meters

The advent of a free market, coupled with the increased use of combine harvesters, is encouraging farmers to provide themselves with some method of determining the water content of grain. If it is too wet, the farmer can postpone combining or can arrange for the crop to be dried. Otherwise it will spoil on storage. Pharmacists should be in a favourable position for selling suitable moisture meters, and there will surely be a demand for them when corn harvesting commences. Of the many types available, four are selected as having special appeal to farmers.

The Marconi moisture meter (Marconi Instruments, Ltd., St. Albans, Herts), determines the electrical resistance of the ground (but unweighed) sample, and a calibration chart provided converts the reading into percentage moisture. The price is £45, and the instrument is compact, convenient and quick in use. The Speedy moisture meter (Thomas Ashworth & Co., Ltd., Vulcan Works, Burnley, Lanes), is more modestly priced at £24 10s., and takes a little longer to operate. When a weighed and ground sample of grain is mixed with excess of powdered calcium carbide in a closed chamber, the pressure of acetylene gas given off registers on a dial calibrated in percentage moisture. The scales are incorporated in the wooden carrying case that houses the instrument, and the outfit is well made, convenient and likely to be very popular.

Another good instrument is the Kaybee infra-red moisture tester (marketed by T. R. Walker, Bilbrough, Yorks, price £35). The ground sample is fed on to a scale-pan until the scale pointer registers zero, and an infra-red lamp is turned over the pan and left on for about twenty minutes, thus drying the sample. The pointer is then found to indicate on the scale the moisture content. Like the two meters previously mentioned, the instrument appears to be at least as accurate as is required by the farmer, but it cannot be employed in the field as it must be connected to a suitable

electricity supply. The Quicktest moisture meter is a hygrometer with a long stem through which run fibres connected to a dial on the top. The stem is pushed into a bag or heap of corn and the dial gives a reading which actually represents the relative humidity of the air spaces in the corn. It cannot be used to determine whether the crop is ready for harvesting and it gives unreliable results on freshly bagged corn. It is, however, the simplest instrument to operate, and at £19 19s. is likely to prove a good seller. The agents are Opancol, Ltd., 3 Sherwood Street, London, W.1.

#### Sheep Dip

This year has seen the introduction of dieldrin in agricultural dusts and sprays, and also in sheep dips. Although the material is in short supply, having to be imported from the United States, the project of the Shell company to set up a factory in Holland for producing aldrin and dieldrin may well upset the balance of the insecticide market next year. In sheep dips, these new materials have the advantage of being much easier to mix, and it is claimed that their persistence is greater. It seems advisable, therefore, to try to avoid any carryover of DDT-based dips from this season's stocks.

#### Potato Blight

The grower never knows beforehand whether it will be a good or a bad season for blight but, for successful results, should carry out a copper spraying before the blight spores appear. Spraying is therefore in the nature of an insurance, and the benefits depend on what might have happened. When blight attacks are severe, the top growth is so badly damaged that the tubers cease to grow, and the yield is therefore much reduced. When the crop is lifted the blight spreads to the tubers, and that spoils their keeping quality, thus reducing the tonnage still further if the potatoes cannot be sold outright. If blight appears, the damage to the tubers can be prevented by burning off the haulm with one of the defoliants, such as sulphuric acid or sodium arsenite, and, if that takes place late in the season, the loss will be minimal.

To prevent potato blight, a suspension of copper oxychloride is generally used, at the rate of 5-6 lb. (depending on the amount of foliage), in at least 20 gall, of water, per acre. The operation can be efficiently carried out with a low-volume sprayer, which is fast becoming a popular tool with farmers. The spraying is repeated a second and (if necessary) a third time at intervals of two to three weeks according to weather conditions, blight being more troublesome in warm wet periods. Prices of the well-known copper products for this purpose vary widely, but a single spraying costs about 18s. per acre for the material. "Burningoff" is coming to be regarded as part of potato growing, not only because it checks blight but also because it makes mechanical harvesting easier. For this operation 1 gall. of sodium arsenite (98 per cent. As<sub>2</sub>O<sub>3</sub> solution) in not less than 20 gall. of water is a practical proposition for the farmer, using a low-volume machine. The cost is about 24s. per acre. That makes the total spraying cost about £4, plus labour, and, with a possible saving of 4-6 tons of sound tubers per acre, represents a good economic return.

ACRYLIC RESIN DENTAL MATERIALS. — British Standard 2487, 1954 ("Acrylic Resin Denture Base Materials") specifies requirements for denture bases supplied as pigmented or unpigmented powders, liquid, and plastic cake. Copies are available from the British Standards Institution, sales branch, 2 Park Street, London, W.1., price 2s. 6d. each.

# A MODERN COURSE OF PHOTOGRAPHIC STUDIES

Editor-in-chief of the series:

H. BAINES, D.Sc., F.R.I.C., F.I.B.P., HON. F.R.P.S.

## 6. MODERN ARTIFICIAL-LIGHT PHOTOGRAPHY

By T. L. J. BENTLEY, D.I.C., A.R.C.S., B.Sc.

RTIFICIAL-LIGHT photography is fast becoming a really important part of photographic practice outside the studio. It had long been possible for the amateur, as a tour de force, to take photographs by general-service electric lamps, and magnesium flash powders had, of course, been used for far longer; but, in the broader sense, amateur artificial-light photography began with the use either of Photoflood bulbs or of enclosed flash (flash-bulbs or flash tubes).

#### Photoflood Lamps

Photoflood lamps Nos. 1 and 2, which were introduced almost twenty years ago, are externally similar to general-service lamps and, like them, give a continuous light. They differ in being designed for "over-running," i.e., for running with the tungsten filament heated to a higher temperature than normal, so that a more brilliant light, less yellow in quality, is obtained for a given consumption of electricity—the price that has to be paid for that gain in output being a considerably shortened burning life.

The smaller (No. 1) Photoflood lamp consumes only 275 watts, but gives a light output comparable for photographic purposes with that of a normal 750-watt bulb. Its average continuous burning life is about two hours. The lamps cost 2s. 6d. each, in forms that can be plugged into an ordinary bayonet-catch lamp-holder or into an Edisonscrew holder.

The larger (No. 2) Photoflood lamp, made similarly with either B.C. or E.S. cap, has a consumption of 500 watts, with an output almost double that of the No. 1, and being less heavily over-run, has a burning life of six to ten hours. It costs 6s. 6d. Thus both bulbs are exceedingly useful light-sources for indoor photography and cinematography, particularly for colour photography with multi-layer films of the artificial-light type, such as Kodachrome Type A film.

The No. 1 Photoflood lamp is intended for use in a small handy reflector giving a comparatively narrow beam: the No. 2 lamp, on the other hand, is designed for use in a bowl-type reflector giving a wider beam which is of approximately the same intensity—the greater light-output of the larger bulb being used to obtain evenness of illumination over a considerable angle rather than an increased intensity. With that added convenience and the

extended burning life the latter combination is a specially practical one.

A great economy in Photoflood lamps results from the use of bulbs in pairs controlled by a series-parallel switch. Connected in series, the bulbs can be run at reduced intensity while all the arrangements of the subject are being made; and the momentary change-over to parallel connection allows the lamp to be run at full intensity for little more than the actual period of exposure. Used intermittently in that way, the bulbs serve for a large number of exposures at exceedingly reasonable cost.

Photoflood lamps need to be distinguished from Photopearl lamps: the latter are high-intensity studio lamps, burning at 3200°K approximately, and are intended for colour photography with Type B colour film.

#### **Flashbulbs**

In the modern flashbulb, which has completely replaced magnesium flash-powder, magnesium or other combustible metal is burnt within a glass envelope, and the hazards and mess associated with flashpowder are eliminated. At the same time the firing of the flash has become much simpler, more certain and under much more exact control. So it is not surprising that flashpowders are now a thing of the past.

The simplest type of flashbulb, and the one most easily used with simple types of camera, is the paste type, which is usually spoken of as the SM type, because its chief representative is the Speed Midget bulb. In this the combustible material, a mixture of zirconium metal and oxidising agents, is carried as a small pellet on a thin filament. Heated by the passage of a small current from a dry battery, the filament ignites the pellet, thus creating the flash. The special convenience of these bulbs is that the flash occurs so quickly that it is easy to synchronise the flash with the opening of the shutter: a single operation starts the flash and the shutter mechanism simultaneously.

In all other respects the more practical type of flashbulb is the type containing magnesium or aluminium in wire or shredded-foil form. In these bulbs, again, there are a filament and a pair of primer pellets: they serve, in burning, to ignite the wire or foil filling, which then burns in the atmosphere of oxygen within the bulb. Bulbs of this type are more powerful than SM bulbs and are made in many sizes giving a wide range of light outputs.

With both types of bulb the possibility of explosion can arise if the bulb is defective or damaged. For that reason, they are made with a lacquer coating, to give some protection against shattering of the glass, and certain makes incorporate a tell-tale colour patch, which gives visual warning of deterioration of the bulb. Nonetheless, flashbulbs should always be used in a proper reflector having a plastic diffusing screen held firmly over the front. In the event of explosion, that will prevent the scattering of glass fragments.

#### Flashbulb Characteristics

When a bulb is fired there is a definite sequence of events. The electrical contact is first made and the filament heats up; then the primer pellet ignites, scattering burning fragments throughout the bulb; then the ignition of the combustible filling begins, builds up speedily to a peak value and dies gradually away during a relatively long period. When the flash has ended the bulb has served its purpose and is finished.

The four characteristics of a bulb that determine its use are its light output, the delay in igniting, duration of the fiash and mean colour temperature. The light output is specified in two ways: either as the total light output (which is applicable when substantially the whole of the flash is utilised) or as the peak lumens output (which is of interest in the rarer case of a very fast shutter exposure timed to catch the peak of the flash). The delay is also specified in two forms: the time that elapses between the

making of the electrical contact and the flash reaching its peak ("time to peak") and the shorter time between the making of the contact and the flash reaching its half-peak intensity ("time to half-peak"). Both times need to be taken into account in flash synchronisation. The basis for the latter figure lies in the assumption that for practical purposes a flash is effectively utilised if the shutter opening catches all the main part of the flash between the moment when it attains half-intensity and the moment when it falls again to half-intensity. For that reason, again, the duration of the flash is quoted in two forms: the flash duration at half-peak and the "effective flash duration," which is a longer period, not usually so closely defined. Those times are specified in thousandths of a second (milli-seconds), e.g., 1/50 second = 20 msec. The mean colour temperature, as is usual, defines the average spectral quality of the light emitted. On the basis of the above characteristics, various types of flashbulb are distinguished as follows:—

CLASS-F BULBS. The "class-F bulb" (in which the "F" presumably means "fast") is applied to the pastetype bulbs, e.g., the SM (Speed Midget), in which the flash attains its peak in 7-9 msec. These bulbs have a low total output (4500 lumen-sec.); have a half-peak duration of about 5-6 msec.; and a colour temperature of 3300°K., which means that they are suitable for exposures with Type A colour films without a filter. The bulbs have small centre-contact (SCC) caps and are intended for use with small reflectors (4-5 in. diameter).

CLASS-M BULBS. "Class-M bulbs" form the group of medium-delay bulbs that reach peak intensity in 20-25 msec., and half-peak in somewhere about 15 msec. from the making of the contact. The bulbs are made in a wide range of sizes giving total light outputs from as low as 5,500 lumen-sec. to as high as 95,000 lumen-sec. The smaller among them, such as the No. 5, PF3, PF14, and PF25, are no larger than the SM bulb and are made with SCC cap for use in small, amateur-type flash reflectors. The flash duration at half-peak with these smaller bulbs is about 10 msec. The larger bulbs in this class, having an output exceeding 20,000 lumen-sec., have an Edison-screw cap to suit large reflectors (6-7 in. diameter). They have a flash duration at half-peak of from 16-22 msec. and an effective duration of 30-35 msec. All these bulbs have a mean colour temperature of 3,800°K and may be used with artificial-light colour film (Type A or B) with a Wratten No. 81c filter.

CLASS S BULBS. The most powerful flashbulb available, the PF100, with a total output of 95,000 lumen-sec., has a longer delay still, taking 30 msec. to reach full peak, or 19 msec. to half-peak. Its flash is somewhat longer (22 msec. at half-peak). Its light output is greater than is normally required for amateur purposes.

CLASS FP BULBS. FP bulbs form a special class for use with focal-plane shutters (other than those on miniature cameras such as the Leica and Contax). Focal-plane shutters take an appreciable time to traverse the picture area and the total time over which the exposure extends is considerably longer than the exposure time at any one point. Hence, if the exposure is to be even at different parts of the picture, the intensity of the flash must remain uniform for an appreciable period. Under those conditions the types of bulbs previously discussed are unsuitable, because the peak of light output is very marked and short-lived. What is required is a slower-burning bulb giving a much longer flash. Such are the PF24 and PF 45 bulbs, which give half-peak durations of 25 and 45 msec. respectively. The former is a small bulb with SCC cap; the second a much larger bulb with ES cap.

COLOURED BULBS. For colour photography, bluetinted and yellow-tinted bulbs are available designed for use with daylight-type and artificial-light-type colour films respectively. The use of blue-tinted bulbs to provide a fill-in light for the shadow side of portrait subjects taken in strong sunshine is a valuable resource for the colour worker. The use of yellow-tinted bulbs is not, however, countenanced by most manufacturers of colour film: they recommend as far more reliable the use of clear flashbulbs with a correcting filter over the camera lens.

#### Electronic Flash

The drawback of flashbulbs is, of course, their cost—at almost one shilling, or more, an exposure the expense is a factor of importance when many exposures are to be made. It has created a considerable and rapidly growing market for small, portable electronic-flash sets, using a flashtube capable of giving about 10,000 flashes. The essential component of such sets is a glass flashtube filled with a rare gas, usually xenon. When a high-voltage current is passed through this tube by the release of a charge from a condenser it produces a white flash, of only about 1/4000 sec. (0.25 msec.) duration, which can be repeated after the lapse of the few seconds required to recharge the condenser. The convenience of these sets for many purposes is undeniable, and the problem of synchronisation is greatly simplified by the fact that the flash occurs without measurable delay and is of such short duration. On the other hand, even the smallest portable forms of this equipment are comparatively heavy and fairly expensive (although the models most recently introduced have brought the price down to about £12) and the cost of bulb and battery replacements is considerable.

Whilst these portable electronic sets are being used with success, they have definite limitations in comparison with flashbulbs. Comparison between the performance of a 200-joule studio-type electronic outfit and of a flashbulb set readily leads to the conclusion that the exposure effect is scarcely more than that with the smallest flashbulb. It must be concluded that the effective working of the portable sets, costing about one-tenth as much as the studio outfit in question and with an output very much smaller, must depend on the utmost utilisation of the relatively small light available by the use of reflectors of high efficiency over a narrow angle,

Because the electronic flash is of very short duration, the question of reciprocity failure arises and affects the response of the sensitive material in such a way as to give slightly reduced image density and contrast. For this reason films or plates that have been exposed by short-duration electronic flash should be given about 50 per cent, extra development.

#### Technique of Flash Photography

Flashbulbs can be used with no more elaborate equipment than a pocket battery torchlamp fitted with an adaptor to take a bulb with SCC cap, but it is more usual to use a flashbulb holder that combines a battery holder and a reflector.

The firing of flashbulbs requires the application of 3-30 volts and, for certainty in firing and more especially for exactitude in synchronisation, at least 3v. must be reached. Hence the first practical requirement with flashbulbs is that the battery shall be really fresh and all circuit contacts clean. Lack of attention to those requirements is the cause of almost all difficulty with flashbulbs. For that reason simple battery flash sets are now largely being replaced by battery-capacitor units, in which a 22½v. hearing-aid battery is used to charge a 100-mfd. (or larger) dry electrolytic condenser through a resistance: when the condenser is discharged at 22½v, firing of the bulb is effected with much increased certainty.

If flashbulb exposures are made by the open-flash method the question of synchronisation does not arise. With the camera on a firm support, the camera shutter is opened (on a "brief-time" or "time" setting), the flash is fired and the shutter closed, all by manual operation. Under those conditions the shutter is open for the whole period of the flash and the light output is utilised in its entirety.

Obviously, however, the scope of flash photography is enormously extended by subjecting the action of shutter and flash to a mechanical synchronising control such that a single action by the user operates both; and the requirements of this method of synchro-flash photography are discussed further below. Flash units of the kind referred to are most commonly used attached to the camera, so that a flat, frontal lighting is obtained in portrait work. Satisfactory as this may be for many amateur purposes, the more discerning users are likely to insist on the more pleasing modelling and lighting effects that can be obtained by using two or more flashes from an oblique angle, with suitably proportioned lighting on the two sides. For such multiple-flash work a battery-capacitor set should be used, with the extension units connected in series (and not in parallel), in order to ensure reliable synchronising of flash and shutter.

The assessment of exposures in flashbulb work is exceptionally simple. Because the intensity of illumination given by a bulb varies approximately inversely with the square of the distance of the subject and, on the other hand, the light transmitted by a lens varies inversely as the square of the f/number, it fortunately results that multiplying the flash-to-subject distance by the f/number for correct exposure gives a constant, over the range of distances likely to be used in flash photography. That constant is a value known for a given combination of flashbulb, reflector, film speed, shutter setting and subject environment, and it forms the basic of the principle of exposure guide numbers (or flash factors). From tables of guide numbers issued by the bulb manufacturers an appropriate guide number can be obtained for given working conditions; and with that guide number known it is only necessary to divide by the flash-tosubject distance (in feet) to arrive at the f/number of the lens opening required. For example, if the guide number is 80 and the flash is used at 10 ft. from the subject, the appropriate lens opening, or f/number, is 80/10, i.e., f/8. These guide numbers are quoted for specified conditions, as for example, a subject of average tone in a room of average size with walls and furnishings of light tone. In a small room with surroundings of very light tone, giving ample reflected light, the lens aperture may be closed down by one stop; and in a large room or out-of-doors, where there is little or no reflected light, the lens must instead be opened up by one stop.

In so-called "bounced flash," the flash is not directed at the subject but obliquely upwards at the wall and ceiling, so that a well-diffused light is obtained by general reflection. The method allows soft, natural portrait renderings of pleasing quality to be obtained, but of course excludes the possibility of striking lighting effects.

As an adjunct to daylight, flash is coming increasingly into use—and for two different purposes. Under conditions of very dull lighting, flash may be used to create the main accent of light and thus add adventitious brightness and life to the subject-hence the description "pseudosunlight" for this mode of use. More often, however, flash is used in out-door daylight photography as a "fill-in" light, to counteract the extremes of contrast that cause difficulty in making portraits in brilliant sunshine. Especially in colour work it is essential to restrict the lighting contrast on highlight and shadow sides to a maximum of 4:1, and the use of blue-tinted flashbulbs provides an extremely convenient way of evening up to that value the lighting contrast in bright sunshine. This mode of use is distinguished as "synchro-sunlight." In both cases success depends on achieving a suitable balance in the final picture between the daylight and the flash illumination, and when the flash is used as a fill-in light it is particularly important to use the flash with discretion, so that it merely lightens up the shadows somewhat, whilst leaving the natural sunshine as the main illumination. Much American work of this kind suffers from excessive flash illumination, which robs the picture of its realism.

#### Technical Aspects of Synchronisation

The subject of flash synchronisation is complicated by the facts that the technical terms involved are often used loosely in different senses; that different kinds of synchronisation are needed for different purposes and different forms of flash; and that different mechanical means may be used to achieve a given end.

First of all, there are two forms of synchronisation. True synchronisation depends on the exact timing of a fast shutter exposure to catch the peak of the flash and the need for it arises in the photography of high-speed action subjects. In this form of synchronisation the exposure given is regulated by the speed of the shutter. Except when modern synchro-shutters are available, it involves the use of speed-guns, external synchronisers of a precision type, such as the Graflex, Kalart, Mendelsohn, Burvin, etc. Those devices may operate the camera shutter either by electrical means (solenoid) or mechanically, and because they make less exacting demands on the battery, synchronisers of the mechanical type have a better name for reliability.

In contradistinction to that form of synchronisation, which is largely the domain of the specialist, synchro-flash in general is a much less precise matter of firing a flash at some moment during the comparatively lengthy opening of the shutter, and the time of exposure given is determined by the length of the flash. Even though this is a less precise form of synchronising, the need does still exist to adjust the synchronisation to the delay characteristics of the flash-bulb.

First, with electronic flash, the emission of light occurs instantaneously with the making of the firing contact. For such flash it is essential that the electrical contact should not be made until the shutter has reached its fully open position. That is class-X synchronisation.

With class-F bulbs, such as the SM type, the flash develops in the bulb within about 7 msec. Hence, as the blades of a modern diaphragm shutter complete their movement of opening in little more than 2 msec., the shutter is fully open at the time of the flash if the shutter release and the electrical contact are operated simultaneously. This form of synchronisation, made possible by the speed of response of the class-F bulb, is known as class-F synchronisation.

With class-M (and class-S) bulbs, again the flash takes about 20 msec. to develop and, if the shutter is to be used at a conveniently short setting (say 1/100 sec.), the mechanical device must allow the electrical contact for the firing of the bulb to be made before the shutter is released. This form of synchronisation, suited to class-M bulbs, is known as class-M synchronisation.

#### Built-in Synchronising Mechanisms

Almost all cameras now in production embody some form of built-in synchroniser. In the simpler models, intended for use with a flash attachment, the camera body is fitted with a pair of flash connections to which electrical leads from the battery are connected, and the shutter is so adapted that the electrical contact is made simultaneously with the release of the shutter. That in effect provides class-F synchronisation, for the use of SM bulbs primarily, but allowing also the use of class-M bulbs at speeds not faster than 1/25 sec.

The position is similar with the simpler types of synchronised diaphragm shutters with fixed synchronisation, such as the Compur-Rapid and the Prontor-S, except that they are fully speeded shutters and that the contacts are arranged to give class-X synchronisation.

Still more highly developed are the Prontor-SV and the Synchro-Compur shutters, which incorporate within the shutter an adjustment varying the synchronisation from class X to class M. At the "X" setting the shutters operate satisfactorily with electronic flash as well as with SM bulbs at 1/25 sec. At the "M" setting they work with

class-M bulbs at speeds of 1/50 second and fractions below that.

Prior to the advent of shutters with internal synchronisation, the same ends were achieved by the use of external synchronising devices—either flash attachments such as the Nebro or Gilbert synchro-guns, or the high-speed synchronisers already referred to as speed guns. But synchronised shutters are so fast becoming standard equipment, and the convenience of such shutters is such an advantage over the use of synchronising attachments, that synchronised flash is certain to become more and more completely the preserve of synchronised shutters. Even so far as existing cameras without such shutters are concerned, the adaptation of the shutter to provide synchronisation is a relatively simple matter, which many owners will think well worth while as opening up to them the wide new possibilities of synchro-flash photography.

To summarise this question of synchronisation, electronie flash can be used only with equipment giving class-X synchronisation. SM bulbs can be used at all normal shutter speeds when class-F synchronisation is provided, but may also be employed successfully with class-X synchronisation so long as the exposure is as long as 1/25 sec. Class-M bulbs demand elass-M synchronisation for their most effective use at shutter speeds as high as 1/100 sec. but may also be used with class-F or class-X synchronisation so long as the shutter exposure is suitably lengthened, i.e., to at least 1/25 sec. In those circumstances the whole of the flash may not be utilised, but satisfactory results are certainly to be obtained.

BRITISH FINE CHEMICALS AND THEIR USES

#### 12. SILVER NITRATE

SILVER nitrate represents the most important soluble silver compound as it acts as the raw material for preparation of innumerable other silver salts that are used in

industry today.

Earlier references to impurities likely to be found present, such as copper, iron and calcium, may be discounted today since the salt is almost invariably made now from electro-refined silver of 999·99 purity. Silver below 999·98 is considered impure for preparation of silver alloys, and the same conditions hold good for its salts. It is usually stored in dark coloured bottles, as a precautionary measure, but it does not blacken in air except in contact with organic substances. It is commercially supplied in the form of crystals and sticks. Exacting analyses have revealed that the salt rarely, if ever, contains more than 0·001 per cent. of impurities in the form of bismuth and lead. In the form of sticks it cannot be distinguished visually from that fused with potassium nitrate, which is also prepared for surgical purposes. The content of nitrate is either calculated by difference from the result of the silver determination, or the filtrate from the silver chloride is evaporated, and the potassium chloride in the residue estimated and calculated to potassium nitrate. The latter may be recognised by moistening a strip of filter paper with the solution, drying, igniting, and testing for alkalinity.

Medicinally, silver nitrate is chiefly used externally in aqueous solution as an eye lotion and as an application for chilblains, warts, etc. One of the troubles when handling silver nitrate is the difficulty of removing black stains which are produced on the finger nails, and various recommendations have been made such as applying solutions of

potassium cyanide and potassium iodide.

Industrially, silver nitrate is used to a large extent by the photographic industries for the preparation of silver chloride and bromide emulsions and other light-sensitive preparations. It is used in the glass silvering trade and in the manufacture of mirrors, and in the preparation of indelible ink for marking linen. In electro-plating, despite the incursion of ehromium plating, it is still widely utilised. It represents one of the most important chemical reagents in laboratories of works engaged on the production of chlorides, hypochlorites, bromides, bromates, iodides, iodates, hyposulphites, and the identification of chromic and arsenious acids. It is used for the detection of formic, citric, tartaric, gallic and malic acids, aldehydes,

and various cyanide compounds, besides other organic compounds. One of its unique uses is in the detection of metallic material in the presence of oxides, which causes the silver to be deposited from the silver nitrate and that is taken advantage of in the examination of complex residues.

## Onward from Galen

A CURRENT CAUSERIE

Among the varied tasks which a pharmacist may be called upon to perform, the provision of casualty make-up for demonstration purposes in Civil Defence and other first-aid classes is one requiring considerable ingenuity and quite often an equal skill in compounding. A booklet written by Dr. A. C. White Knox (principal medical officer, St. John Ambulance Association) and published by that Association under the title "First Aid Competitions and Casualty Make-up," is therefore opportune. A chapter dealing entirely with make-up for simulating injuries enumerates the materials required and includes, as well as Plasticine, grease paints and cosmetics, pieces of bone, hair and scraps of metal and glass, many ingredients normally found behind the chemists' counter, such as glycerin, castor or olive oil, gums and resins, technical ether, surgical spirit, and dyes. Chemists called upon to supply casualty make-up should find the book a useful guide and perhaps a basis for further experiment. It is published by the Association at its headquarters, St. John's Gate, Clerkenwell, London, E.C.1, price 1s, 6d.

An increasing tendency in industry to employ older men and women is shown in figures recently given by the Ministry of Labour and National Service. Examples are quoted of older persons, including several people more than seventy years old, recently placed in posts by local offices of the Ministry. In the chemical and pharmaceutical industry, a Manchester organisation has decided to engage older workers on clerical duties; the age limit for men entering employment with a company of glass bottle makers in the north of England has been raised from forty to fifty years. In an age when scientific research and achievement is prolonging considerably the average person's expectation of life, and the well-being, especially financially, of older people is becoming a matter of increasing concern, the tendency should be generally welcomed.

How many pharmacists now use The bookplates? plate of Dr. Vande Wiele, of Amsterdam, here reproduced, has no strongly pharmacentical. flavour. What can one read into it? A basic family design, with formal and ecclesiastical background, with Leo imposing his own individuality upon it, and a clue to his own pharmaceutical vocation in the drug jar intertwined with the flourishes of his Christian name? We are in-



debted to Mr. W. F. Daems, apotheker, a director of Biochema, Leiden, for a print of the bookplate.

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 7: Prices were generally firm throughout the CRUDE DRUGS market during the week as shipment offers of many commodities continued to be difficult to obtain. There were no offers of SENEGA from origin because floods in the growing areas are delaying collection. Meanwhile all spot supplies have been taken up.

of New-crop offers Cascara SAGRADA were down by 10s, a cwt. for the second week in succession. Portuguese Ergot for shipment was 19s. per lb., c.i.f., nominal with no sellers (or inquiries) at that figure. AGAR (Kobé No. 1) was sixpence per lb. lower on the spot but Chinese Menthol was sixpence dearer upon a little more inquiry. Among Spices the quotations for Mombasa Chilles varied between holders; CLOVES were easier by onepenny per lb. and PEPPER was generally steady at the previous week's level. Canada Balsam at 20s, per lb. on the spot was down by 1s. 6d. while quotations for COPAIBA BALSAM nominal as spot supplies were believed to have been cleared. There were again no primary shipment quotations for IPECACUANHA. Offers of ANTIMONY from China were made at prices which, after allowing for duty, were well under the United Kingdom domestic prices. Mercury was unchanged at £97 10s. per flask. SHELLAC values were held at previous levels. A steady demand for HENNA was noted.

There were no price changes in PHARMACEUTICAL and FINE CHEMICALS advised by manufacturers but the market for SULPHONAMIDE was somewhat, depressed following widespread offers of imported material,

In ESSENTIAL OILS spot CITRONELLA was held at previous levels but the Ceylon oil for shipment was easier by fourpence per lb. LEMONGRASS was three-halfpence higher at origin and Chinese Peppermint, threepence higher both on the spot and for shipment. Madagascar CLOVE LEAF was dearer by fivepence per lb. and Brazilian SASSAFRAS by one shilling. On the other hand Bois de Rose and East Indian SANDALWOOD were lower by one shilling.

#### EXCHANGE RATES ON LONDON

	At the opening on Wednesday					
١	*Alexandria .	Piastres to £	971-971			
ı	Amsterdam .	Florins to £	10.56-10.72			
į	*Bombay	Shillings to				
Į		rupee	1/5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
1	Brussels	Francs to £	138.95-141.05			
1	Copenhagen	Kronor to £	19,194-19,484			
1	Dutch West					
i	Indies	Florins to £	5.24-5.32			
١	*Hong Kong	Shillings to \$	1/233-1/231			
Ì	*Karachi	Shillings to	. 02 . 02			
		rupee	2/133-2/135			
	Lisbon	Escudos to £	79.90-81.10			
	*Montreal					
	T.T	Dollars to £	2.753-2.76			
į	New York					
	Т.Т	Dollars to £	2.78-2.82			
ì	Oslo	Kronor to £	19.85-20.15			
ı	Paris	Francs to £	972.6-987.3			
ì	Stockholm .	Kronor to £	14.37 %-14.59 %			
i	*Singapore	Shillings to £	2/338-2/4-			
	Zurich	Francs to £	$12.15\frac{3}{16}$ - $12.33\frac{9}{16}$			
	*Free market rates; remainder Bank of					
ı	England.					
	on Alandi					

#### Pharmaceutical Chemicals

AMPHETAMINE.—Prices (per kilo) for 25-kilo lots are as follows:—BASE, 160s.; SULPHATE, 130s.; d-Amphetamine, 550s.

ANEURINE HYDROCHLORIDE, — Prices (per kilo) range from £46 for 1-kilo down to £45 15s, for 100-kilo lots,

Antimony salts.—Quotations for potassium tartrate, B.P., are 7s. 6d. per lb. for 1-10 cwt. and Sodium tartrate, B.P., 13s. 3d.

ATROPINE.—Rates for 16-oz lots are: ALKALOID, 29s. 10d.; SULPHATE, 24s. 1d.; HYDROCHLORIDE, 31s. 9d.; METHYLBROMIDE, 24s. 7d.; METHYLNITRATE, 33s. 7d. The price for 1-oz. lots is 6d, per oz. more than the 16-oz, rates.

Barium sulphate, — 1-cwt, lots of B.P. (x-ray) are 1s. 5d. per 1b. and 5-cwt. 1s. 4d. per 1b.

BENZAMINE, — LACTATE is 53s, per 100 gm, and 247s, per 500 gm. Hydro-chloride is 56s, 6d, for 100 gm, and 264s, 6d, for 500 gm.

BENZOCAINE.—Minimum price for B.P. is 20s. 6d. per lb.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	1.	1-cwt.	28-lb.	7-lb.
CARBONATE SALICYLATE		s. d. 23 5 22 6	s. d. 23 8 22 9	s. d. 27 5 26 4
SUBGALLATE SUBNITRATE		21 8 20 11	21 11 21 2	25 6 24 4

2-cwt. lots are 3d, per lb. less than the 1-cwt, rates. The present 1-cwt, rates for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C. 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

BRUCINE,—ALKALOID is from 1s. 8d. to 1s. 9½d, per oz. and NITRATE and SUL-PHATE from 1s. 7d. to 1s. 8½d, per oz., as to quantity.

CALAMINE.—1-cwt. lots are 1s. 7d. per lb.; 10-cwt., 1s.  $5\frac{1}{2}$ d.

CALCIUM CARBONATE. — B.P. powder is £24 10s. per ton, ex store.

CALCIUM CHLORIDE, — B.P. crystals are 1s. 0½d, per lb. in 1-cwt, lots and exsiccated 10d,

CHLORAL HYDRATE. — In 1-cwt, lots the price is from 3s. 10d, per lb, as to holder. CHLORBUTOL.—28-lb, lots are at the rate

CHLORBUTOL.—28-lb. lots are at the rate of 10s. per lb.

Chloroxylenol.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CITRATES.—Rates (per lb.) are as follows:—Potassium, 1-cwt. lots, 3s. 6½d.; 28-lb., 4s. 6d.; Sodium, 1-cwt., 2s. 11½d.; 28-lb., 3s. 10d. (powder of both salts two-pence more). Iron and ammonium, 1-cwt. lots, 3s. 10½d. granulated, 4s. 2½d. scales.

CITRIC ACID.—In tight supply, Quotations (per cwt.) are 205s, for 1-4-cwt, lots and 200s, for 5-cwt.

Cresol.—Price of B.P. quality from distillers is 7s. 9d, per gall. in 5-gall. lots.

FERROUS SULPHATE.—1-cwt. lots of B.P. crystals are 42s. 6d, per cwt. and 5-cwt., 40s.; granulated, 2s, 6d, per cwt. more. EXSIGNATED is 95s, per cwt. and 5-cwt., 91s.

HYDROGEN PEROXIDE, — Manufacturers' price for single carboys of 20 volumes is 4s. 6d, per gall,

Magnesium sulphate.—Quotations for B.P. in minimum 1-ton lots vary between £17 10s. and £20 per ton, according to size of crystal and manufacture. Exsicated is £34 per ton.

Magnesium trisilicate. — In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

PARAFFINS. — Prices to wholesaler distributors are as follows: —Liquid: Heavy, B.P., £98 17s. 6d. per ton; LIGHT, B.P., £81; light Technical white, £68 10s., all in 40-45 gall, returnable loaned drums, delivered U.K. Soft: White, medium consistency, £90 10s., and YELLOW, £70 10s., all B.P., in non-returnable drums delivered. Hard: Melting point 135/140° F. is £86 17s. 6d. and 145/150° F., £93 5s. per ton, in minimum 1-ton lots, ex works.

PHENOBARBITONE, — l-cwt, lots are 25s, 6d, per lb.; Sodium is 6d, per lb. more than above rates.

PHENOLPHTHALEIN. — Rate for 1-cwt, lots is 10s. 10d. per lb.

PHENYLACETIC ACID. — In 1-ton lots the price is now 5s, 6d, per lb.; 1-cwt., 6s, per lb, Perfumery g ade, re-crystalli ed is from 8s, 6d, to 11s, 6d, per lb., as to quantity.

Phosphoric acid.—B.P. is 1s, 5½d, per lb in 1-2 carboy lots, Hypophosphorous, B.P.C., in winchesters, is from 5s, 9d, to 6s, 10½d, per lb, as to quantity.

PIPERAZINE. — Quotations for HYDRATE are from 37s. 6d. per lb.

POTASSIUM NITRATE, — Pharmacopœial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

QUINIDINE.—Prices (per oz.) for minimum 100-oz. lots in the home market are: ALKALOID. 8s. 9d.; SULPHATE, 6s. 7d. Extra charges for small lots.

RESORCINOL. — 1-cwt. lots are now quoted at 13s. per lb. by manufacturer.

Santonin. — The following prices apply in the home market, including Eire: — 5-kilo lots, £63 per kilo; 2-4-kilo lots. £64 10s.; 1-kilo, £66; 500 gm., £67 10s.; 250 gm., £69; smaller quantities, £72.

SILVER SALTS. — NITRATE in 1,000-oz. lots is 4s, 0 ½d. per oz.; PROTEIN unchanged at from 36s. 3d. to 42s, 9d. and for VITELLIN from 68s, 6d. to 76s, 6d, per lb., as to quantity.

SODIUM SULPHATE,—Makers prices for B.P. range from £10 10s, to £16 10s, per ton as to crystal and quantity.

SODIUM SULPHITE.—1-ton lots of AN-HYDROUS (48-50 per cent.) are £62 per ton in 1-cwt. drums; CRYSTALS, B.P.C., £38 17s. 6d. in kegs and £30 12s, 6d. in paper-lined bags.

SODIUM THIOSULPHATE. — Maker's price for 1-ton lots in paper-lined bags is £34 per ton.

SULPHANILAMIDE.—Manufacturers' rates are from 8°, per lb, for 1-ton lots with surcharges for smaller lots.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards as to quantity.

ZINC OXIDE.—Rates for all grades have advanced £3 per ton, B.P. quality is now: 2-ton lots, £117 per ton; 1-ton, £118; 5-cwt., £120; under 5-cwt., £127.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted as 1s. 2d. per lb.; 28-lb., 1s. 5d.

#### Crude Drugs

ACONITE. — Spanish napellus is 3s. 6d. per 1b., duty paid, ex wharf.

AGAR. — Kobé No. 1 on the spot is from 16s, 6d. to 17s, per lb. Shipment, 14s. 9d., c.i.f.

ALOES: — Prime Cape, spot market cleared; shipment is nominal 177s. 6d. per cwt., c.i.f., Curação is 305s, on the spot and 290s., c.i.f., for shipment.

ANTIMONY. — English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

ASAFŒTIDA.-Persian block is from £10 to £14 per cwt., duty paid, as to quality.

BALSAMS.—Quotations (per lb.) are:— Canada: 20s. spot. Copaiba, B.P., 11s. 6d., nominal. Peru. 9s. in bond. Tolu (genuine as imported). 26s. 6d. spot and 26s., c.i.f.

BENZOIN.—Sumatra block No. 1 on the spot is from £30 to £34 per cwt. Forward,

BISMUTH METAL.—Minimum rate is 16s. per 1b.

CALUMBA. — Ordinary natural sorts quoted at 90s, per cwt. on the spot. - Ordinary natural sorts are

CAPSICUMS.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 195s., spot, duty paid.

CARDAMOMS. — Aleppy 13s. 9d. per lb. on the spot; prompt shipment offers are 10s. 9d., c.i.f., and new-crop for October-November, 9s. 3d., c.i.f.

CASCARA SAGRADA.—Offers of new-crop are easier at 2403. per cwt., c.i.f. Spot material (old-crop) value is 325s., duty

CASSIA BARK. — Whole on the spot is about 90s, per cwt., in bond, and for forward delivery, 78s., c.i.f. Broken 78s., in bond, and 66s., c.i.f.

CHAMOMILE. — Belgian flowers are 5s.

to 5s. 6d. per lb. on the spot. CHILLIES.—Mombasa are 305s, to 320s.

per cwt. on the spot. CINCHONA.—Price per lb. varies from 7d. to 2s. according to test.

CINNAMON.—Ceylon for shipment (c.i.f.), per lb.; OOOO, 3s. 11d.; OOO, 3s. 10d.; OO, 3s. 9d.; O, 3s. 8d.; firsts, 3s. 2d.; seconds, 3s. 1d.; thirds, 3s.; quillings, 2s. 3½d.; featherings, 1s. 4½d.; chips. 7½d.

COLOCYNTH.—A small quantity of pulp is offered at ls.  $10\frac{1}{2}$ d, per lb., duty paid.

GALANGAL.—Root is quoted at 80s. per cwt., c.i.f., for shipment, and spot, 85s.

GINGER.—African old-crop on the spot is 195s, per cwt. with shipment offers at 190s., c.i.f. Jamaican No. 3 is 230s. on the spot and 222s. 6d., c.i.f.

GUM ACACIA — Kordofan cleaned sorts on the spot are quoted at 135s. per cwt.; affoat, 128s. 6d., c.i.f., July-August. 132s, 6d., c.i.f

Henna.—Indian is 105s. and Egyptian, 130s. to 140s. per cwt. on the spot.

HONEY.—Quiet. Australian light-amber is unchanged on the spot at from 100s, to 108s, per cwt. and medium amber, 92s. 6d. to 97s. 6d. Argentine is quoted at from 115s, to 120s, and Jamaican from 120s to 120s. 120s. to 130s.

KARAYA. — No. 1 gum on the spot is quoted at 250s, per cwt., and 240s, for shipment, and No. 2 at 180s, and 160s., c.i.f.

MENTHOL.—Spot. Chinese is about 28s. per lb., duty paid, and for shipment, 26s. 6d., c.i.f.

MERCURY. — Nominal spot value is £97 10s, per flask (76-lb.), ex warehouse.

Myrrh.—Aden selected sorts are about £14 per cwt. on the spot. Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 2s. 9d. per 1b. on the spot and 2s. 7d., c.i.f., for shipment,

Orange Peel.—Bitter quarters. Spanish quoted at 1s, 10d, and West Indian at 1s, 1d, per lb. on the spot. Bitter ribbon 1s, 2d,

ORRIS ROOT.—Florentine on the spot is 185s. per cwt.; pro infantibus, 8s. per lb.

PEPPER.—Steady. White Sarawak is unchanged at 5s. 6d. per lb., spot with afloat parcels quoted at 4s. 10½d. to 5s. 3d., c.i.f. Black Sarawak is unchanged at 4s. 6d. spot and afloat. 3s. 6d., c.i.f. Black Malabar, 500s. to 505s. per cwt., spot; 380s., c.i.f., July shipment.

PODOPHYLLUM. — Peltatum is 336s. per cwt. on the spot. Emodi is 140s.

QUASSIA.—Spot quotations for chips are about 40s. No offers from Jamaica.

RAUWOLFIA (SERPENTINA).—Spot supplies are nominal; shipment offers withdrawn.

are nominal; shipment offers withdrawn.

SEEDS. — (Per cwt.). ANISE.—Cyprian, 165s.; Bulgarian, 130s., in bond, both spot London. Caraway. — Dutch unchanged, sellers quoting 145s., duty paid, spot London. Celery.—Indian continues quiet with sellers quoting 180s. on the spot. Coriander.—Spot, Moroccan, 60s., duty paid (55s., in bond). English, 72s. nominal. Shipment: Moroccan new-crop remains at 48s. 6d., c.i.f., for July-August. Cumin.—Spot, Cyprian 125s.; Moroccan, 127s. 6d., duty paid; Indian, 140s. Shipment (new-crop) Cyprian, 117s. 6d.; Moroccan, 100s., both c.i.f., London. Dill.—Indian in poor demand at 87s, 6d., spot. Fennel.—Small business reported on spot with 90s. to 95s. quoted for Indian, Fenugreek.—Moroccan is in short supply on spot with 47s. 6d., duty paid, quoted. Mustard.—English, 67s. 6d. to 80s., according to quality. quality.

Senega.—Spot market bare. No primary shipment offers.

SERPENTARIA. — Root is offered at 37s. per lb. on the spot.

SHELLAC. — Spot quotations are:— F.O.T.N. pure, 315s.; F.O. standard No. 1. 335s., nominal; fine orange, 350s. to 390s. per cwt., ex-London warehouse.

SQUILL.—Italian on the spot is 76s, per cwt. and new-crop white for shipment, 55s., c.i.f.

STROPHANTHUS.—Kombé, 100 per cent. is about 9s. per lb., on the spot, and Gratus, 14s. 6d., nominal with shipment offers at 13s. 6d., c.i.f.

TAMARINDS. — Supplies of West Indian are offered at 50s. per cwt., duty paid.

TONKA BEANS. — Frosted Para on the

spot are offered at 6s. per lb. and Trinidad, 8s. 9d.

TRAGACANTH.—No. 1 ribbon on the spot is £102 10s, per cwt.; No. 2, £85; No. 3, £65.

TURMERIC. - Madras finger on the spot is easier at 145s, per cwt. Shipment mains firm at 128s., c.i.f. Rajapore quoted at 140s, on the spot. Rajapore is

UVA URSI.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s, per cwt. on the spot and from 130s, to 145s., c.i.f. Belgian, 185s., spot.

Vanillin. — Rates (per lb.) are: 5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lt 30s. 6d.; smaller quantities, 30s. 9d.

30s. 6d.; smaller quantities, 30s, 9d.

WAXES.—BEES.—Dar-es-Salaam. Spot about 485s, per cwt. July shipment, 475s., c.i.f.; Sudanese, 425s., in bond and 425s., c.i.f.; Abyssinian, spot, 475s. and shipment 430s., c.i.f. Benguella, 435s. in bond, nominal and 430s., c.i.f. CANDELILLA.—Spot is 630s. per cwt. CARNAUBA.—Prime yellow on the spot is 1,000s, per cwt.; shipment, 940s., c.i.f.; fatty grey is 685s., on the spot; shipment, 655s., c.i.f. Montan.—Reibeck, crude, 130s, per cwt., spot. Spermaceti.—Case lots are about 1s. 9d. per lb. 1s. 9d. per 1b.

WITCH HAZEL.-Leaves on the spot are about 1s. 9d. per lb.

#### **Essential and Expressed Oils**

Bois DE Rose. — Brazilian on the spot is 30s. and 29s. 6d., c.i.f.

Cassia.—Original drums are 9s. 6d. per lb. for spot and 8s. 9d., c.i.f.

CASTOR. — In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £139 per ton, naked, ex mill. Forward from £126 to £130 as to

CITRONELLA. — Steady. Prices (per lb.) are:—Ceylon, spot, 6s.; July shipment, 5s., c.i.f.; Java, 6s. 9d., in bond; shipment 7s., c.i.f.; Formosa, 6s. 9d., in bond, and 6s. 9d., c.i.f.

CLOVE. - Madagascar leaf is 11s. 6d. per lb., duty paid, and 10s. ld., c.i.f., for shipment. Redistilled stem oil from 17s. 6d., and English distilled bud oil is now offered at 55s.

LEMONGRASS.—East Indian is firm at 9s. per lb, on the spot; prompt shipment, 9s. 1½d., c.i.f.

NUTMEG. — English-distilled oil is 35s per lb. Imported oil is offered at 23s. 6d. per lb., duty paid for drum lots.

OLIVE.—Spanish virgin and pharmaceu-OLIVE.—Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 5s, per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool approximately 21s. per gall, for minimum 1-ton lots (5 x 48-gall, drums). French virgin (maximum acidity, I per cent.) at £215 and B.P., £210 per 1,000 kilos, c. and f. (equivalent to 19s, 9d. and 19s, 6d. per

PEPPERMINT, — Arvensis: Chinese 19s. 9d. per lb., spot. and 19s. 6d., c.i.f., July-August shipment: Brazilian (45 per cent.), 17s. 6d., spot and 17s. 3d., c.i.f. for shipment. Italian "Mitcham" type oil is from 45s. to 47s. 6d, per lb. on the spot.

Sandalwood.—Mysore is from 65s. per lb. as to quantity; East Indian, 62s. 6d.

Sassafras. — Brazilian on the spot is nominal at 7s. per lb.

Spearmint.—Offers of U.S.P. quality at 42s., c.i.f., per lb.

THYME.—B.P.C. is about 9s, 6d. per lb. TITREE. — Spot supplies are offered at 14s. per lb.

VETIVERT. — Bourbon in original drums on the spot is 92s. 6d. per lb.

#### UNITED STATES REPORT

NEW YORK, JULY 6: Despite the normal holiday easing off in shipments chemical business is reported to be on the uptrend after some months of slackening sales. Some firms are running well ahead of their position at this time last year when sales were at record levels. HYDROGEN PEROXIDE, 35 per cent., at 18 cents per lb., was down about two cents; DEHYDROCHOLIC ACID, injection grade, at \$14.75 down 50 cents with the oral grade at \$10.25, down \$1.50, and TERPIN HYDRATE at 57 cents, down five cents. Better demand and improved production enabled the leading producer to lower POLYMIXIN B SULPHATE in bulk form to 52 cents per million units (down 12 cents). The end of the Guatemalan war eased the situation in some BOTANICAL DRUGS. Higher per lb. are GUM ACACIA, amber sorts, at 19½ cents, up two cents, and BELLADONNA LEAVES at five cents, up three cents.

Higher among Essential Oils is South American Petitgrain at \$3.50 (up 20 cents), and lower are Dalmatian SAGE at \$5.75 (down \$1.25) and CLOVE LEAF, \$1.95 (30 cents).

#### **OVERSEAS NEWS**

#### **CANADA**

#### **Drug-traffic Suspects Arrested**

THE anti-narcotics squad of the Royal Canadian Mounted Police have announced that they are carrying out a series of arrests in the Montreal area of people suspected of illegal sale of drugs.

#### HOLLAND

#### **Indians Visit Chemical Works**

A DELEGATION of Indian journalists, invited by the Dutch government for a stay of some weeks in the Netherlands, recently visited Naarden chemical works, Naarden, Holland.

#### Chemical Quiz Motor Rally

A RALLY, in which eighty teams drawn from Holland's pharmaceutical and chemical industries took part, was held in Holland recently. The rally took the form of two drives, morning and afternoon, coupled with a complicated chemical knowledge test.

#### NEW ZEALAND

#### Reduced Cost of Health Service

DURING 1953-54 the New Zealand social security fund was called on to pay nearly £100,000 less for medicines than in the year before. It was the first time since the social security scheme began that expenditure was less than in the previous year.

#### HUNGARY

#### Awards to Scientists

OF the annual Kossuth prizes in Hungary £600 each has been awarded to Béla Oberrecht (chemical engineer, Industrial Medicine Research Institute) for his factory production of streptomycin; Ede Kund (university professor) for work in mechanisation of agriculture, including the construction of an ergot-gathering machine; and Béla Molnár (engineer, Köbánya medicinal goods factory) for work in the manufacture of vitamins.

#### SOUTH AFRICA

#### After-hours Trading Unethical

The unity of the Pharmaceutical Society of South Africa was being threatened by the increasing tendency among individual chemists to set up night dispensaries, Mr. J. Silverman, chairman of the Southern Transvaal Branch of the Society, said when he welcomed delegates to a special meeting of the South African Pharmacy Board in Johannesburg recently. He said that the private dispensaries were causing great discontent among loyal society members. Most business done after hours could hardly be classified as urgent medical requirements. He hoped the Pharmacy Board would give immediate effect to the resolutions of the Society to frame an ethical rule to control "night traders" and their advertising. He asked that it be made compulsory for all chemists and druggists to join the Society. Mr. F. J. Todd, East London (chairman of the Pharmacy Board) referred to Press reports that certain chemists allowed

habit-forming drugs to be sold freely and said that the reports in that regard were exaggerated.

#### UNITED STATES

#### **Cancer and Smoking Investigation**

THE directors of the American Cancer Society recently voted \$25,000 to Washington University, St. Louis, for an investigation into the relationship between tobacco smoking and cancer.

#### Narcotics Seized in New York

FEDERAL and local agents in New York recently seized a store of heroin and opium worth about £756,000 which they found in the possession of a Pole alleged to be an agent of an international narcotics ring.

#### **Television Programme Award**

THE American Medical Association has awarded a citation to Smith, Kline & French Laboratories, Philadelphia, for "pioneering use of television in bettering the health of the nation." The award was made during the Association's recent annual meeting when a week-long programme of colour television broadcasts was produced and sponsored by the company for those attending. The award was also influenced by the company's television broadcasts, "March of Medicine," which originated in June 1952.

#### Safety in Chemical Industry

A REPORT recently issued on behalf of the American chemical industry by the Manufacturing Chemists' Association, Washington, D.C., states that 174 plants belonging to twenty-two chemical companies operated throughout 1953 without a single lost-time accident. The accident frequency rate for all the chemical companies participating in the 1953 assessment was 3.69 per

million man-hours worked, making the chemical industry one of the safest in the nation, the 1953 rate being 52 per cent. below that of 1946.

#### Warning Labels for Wintergreen

To minimise accidental poisoning by oil of wintergreen preparations, the United States Department of Health, Education and Welfare has announced that the labels of products containing more than 5 per cent, of that ingredient must warn that use contrary to directions may be dangerous, and that the article should be kept out of reach of children. The Commissioner of Food and Drugs, in issuing the new order, noted that there were approximately fifteen deaths a year (in the U.S.A.), mostly of young children, from accidental poisoning caused by such preparations. He said that oil of wintergreen was commonly regarded by the public as harmless, but that as little as a teaspoonful of the oil taken internally could cause death. Young children were particularly apt to be attracted by the odour.

#### VENEZUELA

#### Branch Opened in Venezuela

A BRANCH office and laboratory were opened recently by Parke, Davis & Co., Detroit, in Caracas, Venezuela. All physicians and pharmacists in the area were invited to the formal opening. The factory is expected to be in full production in six months.

#### WEST INDIES

#### **Drugs Seized in Jamaica**

POLICE have seized £5,000 worth of marihuana near Kingston, Jamaica, in what they believe to be their biggest blow at the Jamaican drug traffic.

#### BRAZILIAN EXCHANGE AUCTIONS

#### First Stock-exchange deals in Sterling

STERLING was auctioned for the first time on Brazil's fourteen stock exchanges on June 14; the second sale took place under identical conditions or June 24. Only £300,000, in all, was auctioned, £90,000 being allocated to Rio and the same amount to Sao Paulo, divided in lots of £3,600, £1,800 and £400. Minimum premiums per £1 for categories 1, 2, 3, 4 and 5 imports were fixed at 28, 34, 42, 56 and 140 cruzeiros, respectively. All lots were quickly taken up, but bidders were cautious and premiums were less high than was expected.

The average cost of the £ is calculated by adding the average bid to the Bank of Brazil's official rate for drafts (52:69), plus the 8 per cent. tax (4:21 crs.). For purposes of comparison the cost of U.S. dollar, German and Japanese convention dollars for category I merchandise, which includes the largest number of pharmaceutical raw materials and preparations, has recently averaged 37:29, 36:90 and 32:39 cruzeiros. The cost of the £ is thus higher than these, or any other currency, but not excessively so for a first

auction, considering the number of importers waiting to bid.

Those wishing to export to Brazil should supply their agents in Brazil with up-to-date figures for f.o.b. and c.i.f. prices, weights and time for shipment of an average order. The importer must pay the premium in full to the Bank of Brazil within forty-eight hours and his subsequent application for import licence must contain those particulars. They are also required by the customer before the auction to enable him to decide, on the basis of average premiums paid, if he will order in Great Britain or elsewhere.

A Bill is now before Congress to institute ad valorem duties on imports of unessential goods and those similar to products manufactured locally. The Bill proposes a basic rate of 50 per cent. ad valorem on the cost in cruzeiros, the rate rising to 180 per cent. on luxury goods. If approved, exchange certificates will no longer be auctioned for category 4 and 5 imports. These will presumably be allowed to enter Brazil, restricted only by the price factor.

#### WORLD TRADE

Bulgarian Penicillin Production.—A factory to produce penicillin has recently been commissioned in Bulgaria. Its output will largely exceed home demand and it is hoped to export surplus production.

U.S. Chemical Plant Closes. — The Monsanto Chemical Co. closed down its chemical plant in Texas recently following a strike of 750 workers in support of wage demands. The plant is a major producer of styrene, acrylonitrile and vinyl chloride.

South African Rail Charges. — New rates published by the South African Railways recently show that all commodities, whether of South African origin or imported, will be classified under the same tariff conditions, thus eliminating previous differentiation in favour of Union goods.

Quinine Factory for India. — A 400,000-rupce quinine factory is to be built at Gauhati by the Government of Assam according to local Press reports. Meanwhile, plantations of cinchona trees are being expanded at Nongpoh where, according to the reports, about 7,000 acres are already under cinchona.

Dyestuffs Manufacture in India. — As a result of negotiations between Atul Products, Ltd., and Imperial Chemical Industries, Ltd., agreement has been reached on the manufacture of selected vat dyestuffs and intermediates by a new company in which I.C.I. (India), Ltd., and Atul Products, Ltd., will be equal partners. The plant will shortly be erected on the site of Atul Products, Ltd., at Bulsar.

West German Chemical Industry.—Sales of West German chemical products were worth DM 1,083 millions in March or DM 165 millions more than the proceeding month. Turnover in the first quarter of the current year was 9.3 per cent. of the total sales volume of West German industry. Exports of chemical goods at DM 691 millions in the first quarter of the year were a post-war record.

Thai Import Regulations. — Fungicides and insecticides, sulphur dust, sodium sulphite, sodium bisulphide, paranitrophenol, sodium arsenite, 2, 4 D., etc., formic acid, acetic acid and fertilisers are among a number of goods that may be imported in Thailand without a licence if the Provincial Governor supplies a certificate stating they are for use on rubber plantations.

Turkish Opium Crop.—The purchase of the opium crop in Turkey began on June 15. The price of first quality, containing 13 per cent. morphine and upwards was fixed at £T42 per kilo; second quality with 11 to 13 per cent. at £T37 per kilo and less than 11 per cent. at £T34 per kilo. Opium of all three qualities having good colour and smell qualifies for a premium of 10 per cent. on the above prices. The opium is to be delivered at the appointed points without delay, to be examined by experts, and approved for purchase. All opium not offered to the Turkish Ministry of Agriculture by

September 30 will be declared contraband. Meanwhile, it is learned that Turkish opium exports from the beginning of the previous campaign until early June amounted to 171,229 kilos, and contracts have been concluded for the export of a further 42,000 kilos, most of which will probably be taken by West Germany. The area under opium has been increased over the past two years as a result of good sales, according to press reports here. From a total of some 30,000 hectares in 1952 it had risen to 50,000 hectares in 1953.

Danish Pharmaceutical Bill. — The new Danish Bill on pharmaceuticals (C. & D., May 15, p. 514), which takes effect from January 1, 1955, was passed recently by the Folketing (Lower House). Medicinal products may only be offered for sale as specialities if they are entered in the Speciality Register, and to be registered the medicine must be produced at an authorised factory and satisfy certain conditions as to its nature and production. When registered a speciality must be marketed not later than six months after the date of registration and only under a name approved by the Health Commission with the addition of the firm's name or trade mark. The medicine must be clearly marked with the name of the speciality, the contents, the common names of active ingredients and their quantities, a production number or mark, the name and domicile of the producer and storage rules and durability declaration, when such are needed. Other information is not allowed, except that materials used as aids in the manufacture of the product The Act states may be mentioned. that medical specialities must be reasonably priced. In the case of specially important medicines the Health Commission may reduce prices to consumers by 35 to 40 per cent. by the aid of the Apothecary Fund.

#### WILLS

MR. R. L. Balf, 28 Alkrington Hall Road, South Alkrington, Middleton, Lanes, who qualified as a chemist and druggist in 1912, left £10,884 (£10,566 net).

MR. H. BUTTERFIELD, 87 Preston Old Road, Blackburn, Lancs, who qualified as a chemist and druggist in 1900, left £2,142 (£2,001 net).

Mr. R. B. Carnegie, Highfield, Seasalter, Whitstable, Kent (chairman of Carnegies of Welwyn, Ltd.), left £13,705 (£13,381 net).

Mr. S. Carter, Glenart, Pendarves Road, Penzance, who qualified as a chemist and druggist in 1890, left £2,153 (£1,779 net).

Mr. W. D. Clark, M.P.S., 90 Upgate, Louth, Lincs, left £2,166 (£2,113 net).

MR. D. D. COUTTS, M.P.S., 4 Valley Close, Ipswich, left £7,603 (£7,190 net).

MR, R. G. EACOTT, M.P.S., 105 London Road, Teynham, Kent, left £1,107 (£1,056 net).

Mr. J. A. Evans, M.P.S., 42 High Street, Barry, Glam, left £14,932 (£13,532 net).

Mr. G. W. FINDLAY, M.P.S., Bin View, Cathay Terrace, Cullen, Banffs, left £15,949.

#### LOCAL OFFICERS

NATIONAL PHARMACEUTICAL UNION Cardiff Branch.—Chairman, Mr. D. P. Howell; Vice-chairman, Mr. G. Wigley; Treasurer, Mr. B. Steyn; Secretary, Mr. W. R. Pomeroy, c/o 17 Meteor Street, Roath, Cardiff.

#### PRINT AND PUBLICITY

**Booklets** and Leaflets

HILGER AND WATTS, LTD., 98 St. Pancras Way, Camden Road, London, N.W.1: "Hilger Recording Infra-red Spectrophotometer." Pp. 20. "Spectrographic Equipment and Controlled Source Units." Pp. 2.

SUNVIC CONTROLS, LTD., 10 Essex Street, Strand, London, W.C.2: Data sheets, Nos. 1-4, "Energy Regulators," "Vacuum Pumping and Gauging Equipment," "Vacuum Pumping Accessories," "High-speed Continuously Self-balancing Graphic Recorders. Types R.S.P. and R.S.P.M." Pp. 8, 4, 1 and 4 respectively.

#### Advertising Campaigns

INNOXA (ENGLAND), LTD., 1 Eden Street, London, N.W.1: Fashion cream, In Woman's Hinstrated, July 10; and Woman's Weekly, July 17. Tan, In Everywoman, Modern Woman, Vanity Fair and Woman and Beauty. Baby preparations, In Mother and Home.

J. ALLEN RUBBER CO., LTD., Whitecroft, Lydney, Gloucestershire: Marigold household gloves. In Everybody's, Everywoman, Good Housekeeping, Home Notes, Homes and Gardens, Ideal Home, Illustrated, Lady, News of the World, Vogue, Woman and Beauty, Woman's Own.

SOLO ORCHARDS, LTD., Totteridge Lane, London, N.20: Solo orange squash. National, provincial and periodical Press advertising and full colour posters on main line stations, continuing through summer and early autumn.

J. C. & J. FIFID, LTD., Amersham, Bucks: Keg hair cream. In the national daily, evening and Sunday Press, provincial daily and evening papers and in *Picture Post, Men Only*, Readers' Digest, Reveille.

Johnson & Johnson (Gt. Britain), Ltd., personal products division, Wrexham and London: Modess Masslinn sanitary towels: In newspaper spaces and in full-page, full-colour magazine advertisements.

SPA BRUSHES, LTD., Freeman Works, Chesham, Bucks: Holiday snapshot competition. In Radio Times, Woman, Woman's Own, News of the World, Dally Mirror, Daily Express.

SPARKLETS, LTD., Queen Street, Tottenham, London, N.17: Sparklet syphons and bulbs. In national daily and Sunday newspapers, and in Country Life, Field, Punch, Men Only, Reader's Digest.

WIMSOL, LTD., Keighley, Yorks: Wimzo hand cleanser. In Woman, Picture Post, John Bull, Woman's Weekly, Weekly News, provincial newspapers and 600 cinemas, throughout 1954.

#### Catalogues and Price Lists

APEX CONSTRUCTION, LTD., 15 Soho Square, London, W.1: "Pharmaceutical Laboratory and Pilot Plant Equipment." Pp. 9. "Apex Cutter Mills." Pp. 4. "124 Tablet Machine (Eccentric Type)." P. 1.

HILGER DIVISION, HILGER AND WATTS, LTD., 98 St. Pancras Way, Camden Road, London, N.W.1: Hilger Instruments, Section D: "Monochromators and Spectrometers," May 1954, Pp. 16, Section M: "Refractometers, Polarimeters, Temperature Regulators, Strainviewers, Photoelastic Apparatus, Electrophoresis Apparatus," May 1954, Pp. 44.

ALLEN & HANBURYS, LTD., London, E.2: Operation tables (pp. 24).

CONTINENTAL LABORATORIES, LTD., 101 Great Russell Street, London, W.C.1: May 1, 1954. Pp. 4.

DOULTON & Co., LTD., Doulton House, Albert Embankment, London, S.E.1: Porous Ceramics—Filters, Diffusers and Diaphragms. May 1954 (Pp. 8).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: Surgical dressings, May 10, 1954. Pp. 6; B. List. 1954. Pp. 128,

GEDEON RICHTER (GREAT BRITAIN), LTD., Weedington Road, London, N.W.5; Retail Prices of Medical Products, June 1954. Pp. 8.

PARKE, DAVIS & Co., LTD., Staines Road, Houn-low, Middlesex: Additions and Alterations, June 1, 1954 (Pp. 2).

#### TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 23 For all goods (5)

STREPTOVEX, 729,232, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For pharmaceutical preparations and substances (5)

MILPRIN, 729,470, by the Chas. H. Phillips Chemical Co., Ltd., London, W.3.

For santonin and preparations containing santonin, all for pharmaceutical purposes (5)

ARTEMALK, 729,848, by Santonin Marketing Co., Ltd., London, W.1.

For toilet-paper (non-medicated) (16) GERTEX, 728,484, by Dick Wright & Son, Ltd., trading also as the Gee Tee Co., Stanmore, Middlesex.

For hot-water bottles made of rubber or artificial rubber (21)

Device of a flag in a circle enclosing the words THE PENNANT, 727,558, by William Freeman & Co., Ltd., Barnsley, Yorks.

#### From the "Trade Marks Journal," June 30

For chemical products used in industry and

APPRETAN, 717,553, by Farbwerke Hoechst, A.G., vormals Meister Lucius & Brüning, Frankfurt-am-Main-Hoechst, Germany,

For chemical substances for use in the manufacture of lubricants and for use as additives to lubricants to improve their qualities, and chemical compounds in liquid form for use as hydraulic-brake fluids (1)

OXILUBE, 724,913, by Oxirane, Ltd., London, W.1.

For enamel frits and oxides all for use in manu-

FLAKKENAMEL, 727,141, by Ferro Enamels Ltd., Wolverhampton, Staffs.

For anatase titanium oxide (1)

TIANASE, 729,711, by British Titan Products Co., Ltd., Coppergate, York,

For all goods (3)

Device of a signature of JACK PYE, 727,064, by Jack Pye, Blackpool, Lancs.

For non-medicated toilet preparatious (3)

Or non-medicated tottel preparations (3)
DULUX, 727,740, by Boots Pure Drug Co.,
Ltd., Nottingham, TIPPETTE, B727,882, by
Donald Josephs, Ltd., London, W.C.2. HARVELLA, 727,867, by Harvey Drug Stores, Ltd., London, E.C.4.

For disinfectant, toilet, common and polishing soaps (3)

AQUAGENE, 728,446, by Berend Chemicals, Ltd., London, W.1.

For phytic acid, salts of phytic acid, glucurono lactone, glucuronic acid, derivatives and salts of glucuronic acid, sterols, inositol, compounds and derivatives of inositol, protein hydrolysates, amino acids, derivatives of amino acids and

derivatives of glucose, all for pharmaceutical purposes and for use as infants' and invalids' food (5)

ARGO, 710,365, by Corn Products Refining Co., New York, U.S.A.

For pharmaceutical preparations (5) STYPTOPLAST, 718,320, by Lohmann Kommanditgesellschaft, Rheinland, Germany, SOM-PAPRIM, SOMPALIN, 729,753, 729,754, by Farben-Fabriken Bayer, A.G., Leverkusen, Germany.

For materials prepared for bandaging, bandage cases and pharmaceutical substances (5)

Device of a star encircled by the words RADDNINGS KAREN A.B., 721,206, by Raddningskaren A.B., Stockholm, Sweden.

For sedative and hypnotic products being pharunaceutical substances for human use (5) ETHOBRAL, 725,916, by John Wyeth & Bro.,

Ltd., London, N.16.

For pharmaceutical preparations for the treatment of asthma (5)
CAFFEXEN, 726,956, by E. H. Butler &

Son, Ltd., Leicester.

For pharmaceutical, veterinary and sanitary preparatious and substances; material prepared for bandaging; and medical and surgical plasters (5) Device of a signature of JACK PYE, 727,065, by Jack Pye, Blackpool, Lancs.

For sanitary tampons (5)

Carton for Lillets sanitary tampons. It is a condition of registration that the blank space in the mark shall, when the mark is in use, be occupied only by matter of a wholly des-criptive and non trade-mark character. The mark is limited to the colours, beige, lilac and white, 728,071, by Lilia, Ltd., Oldham, Lancs.

For autiseptic preparations containing soap, for use as veterinary lubricants and in the manufacture of pessaries (5)

SAPOLAV, 728,268, by Wyleys, Ltd., Coventrv.

For vegetable extracts being pharmaceutical preparations for use in treating animals afflicted with worms (5)

WURMALINE, 728,269, by Wyleys, Ltd., Coventry.

For laxative preparations containing codeine, for

human use (5)
CODILAX, 728,310, by Thos. Guest & Co., Ltd., Manchester,

For pharmaceutical preparations for use in x-ray examination of the urinary tract (5)

UROGRAFIN, 729,047, by Schering, A.G., Berlin, Germany.

For local anæsthetics (5)

OPHTHAINE, 729,526, by E. R. Squibb & Sons, Ltd., also trading as E. R. Squibb & Sons, London, W.1,

For medicated toilet paper, medicated paper handkerchiefs and inedicated facial tissues (5) CAMEO, 729,690, by the British Patent Perforated Paper Co., Ltd., London, E.9.

For veterinary preparatious containing the oxy-tocic factor of the pituitary posterior lobe for use by injection (5)

LETLAC, 729,744, by Consolidated Chemicals, Ltd., Denbighs, N. Wales.

For scientific apparatus, photographic and cinematographic and optical apparatus and instruments and thermometers (9)

POLLY-M1N, 726,706, by Neville Brown & Co., Ltd., London, W.1.

For apparatus for use in developing and processing photographic films and plates, and thermometers (9)

POLLY-MAX, 726,707, by Neville Brown & Co., Ltd., London, W.1.

For machines, apparatus and appliances for frictional, vibratory and other forms of massage and for weight-reducing purposes (10) SLENDERELLA, 726,421, by Slenderella Sys-

tems, Inc., Connecticut, U.S.A.

For electro-medical apparatus (10)

UVISOL, 729,709, by Tellux, Ltd., London,

#### COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, July 14
BIRMINGHAM PHARMACEUTICAL ASSOCIATION,
Compton Wyngates, Warwicks, Coach leaves
White Horse Hotel, Congreve Street, Birmingham, at 2 p.m., picking up passengers at the Robin Hood Hotel, Hall Green, at 2.30 p.m. Ticket 17s. 6d. (not including admission to the house) from the social secretary, Mr. W. F. Norris, 270 Warwick Road, Olton, Birmingham, 27.

SOUTH LONDON AND SURREY PHARMACISTS' GOLF-ING SOCIETY, Woodcote Park golf club, Couls-

don, at 2 p.m. Fixture.

SWANSEA AND WEST GLAMOROAN BRANCH PHAR-MACEUTICAL SOCIETY, Mackworth Hotel, High Street, Swansea, at 7.45 p.m. Film show and lecture by a representative of Kodak, Ltd.

Thursday, July 15
West Ham Pharmacists' Association, Colchester Castle and Museum. Coach leaves Barking (corner of Glenny Road and Longbridge Road) at 1,10 p.m.; Ilford Hill at 1,20 p.m.; Stratford (outside Boardman's) at 1,40 p.m.

Saturday, July 17
WESTERN SECTION, SOLIETY FOR ANALYTICAL
CHEMISTRY, University College, Swansea, at
10,30 a.m. Summer meeting, Dr. F. H. Pollard "Some Aspects of Inorganic Chromatoon graphy."

Wednesday, July 21

Society for Analytical Chemistry, Royal Institution, 21 Albemarle Street, London, W.I, at 6 p.m. Meeting on "The Use of Perchloric Acid in Analytical Chemistry."

WESTBROOK LANOLIN CO.

Sunproof creamt, 2 oz.

#### C. & D. WEEKLY LIST OF PRICE CHANGES

-Advanced; R-Reduced; I.R.P.-Inclusive Retail Price; \*-Tax 25 per cent.; †-Tax 75 per cent.

CROOKES LABORATORIE July 1) Crookes vitamin quota capsules 28 100 1,000	I.R.P. 2 6 R 7 6 R 46 6 R	one heat 37 6 59 1 box of 10 12 three heat 52 6 82 8 50 per cent.,	12 6 20 0
MENLEY & JAMES, LTD. Quotane ointment* 1 oz.  P.A.T.A. PROTEC (Prices notified this week)		NEW PRODUCTS AND PACKS  CALMIC, LTD. Each Ferromyn tablets* 100 4 2 50-c.c. bottle	18 0 72 6 22 6 42 6 12 6
Articles Trade Association). W. T. OWBRIDGE, LTD. Northern Ireland: Owbridge's lung tonic*  pastilles*  A. J. WHITE, LTD. (addinguring eye drops*	(from July 1) Doz. 11 6 1 8 A 29 6 4 2 A 7 9 1 0 A	ERASMIC CO. Shavallo lather cream*, jar tube 2 2 2  EVANS MEDICAL SUPPLIES, LTD. [correction] Praducil 200 31 0 46 6 Trypure 20-mil 11 3 UPJOHN OF ENGLAND, LTD. Each Paminal clixir 16 oz 25 4  WARD, BLENKINSOP & CO., LTD. Producil 20-mil 11 3 Example 11 25 gm. LAMBERT PHARMACAL CO.	4 9 5 0

Doz.

PRO liquid denture cleaner\*

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#### in URINARY TRACT INFECTIONS

Terramycin is effective in the treatment of infections due to mixed bacterial flora, infections resistant to other chemotherapeutic and antibiotic agents and infections due to some strains of Ps. pyocyanea (1).

#### in RESPIRATORY TRACT INFECTIONS

the particular value of Terramycin lies in its efficacy against the variety of aetiological agents involved. It is effective in such conditions as laryngotracheobronchitis (2), a typical pneumonia (3), and staphylococcal empyema (4).

#### in OPHTHALMOLOGY

the particular value of Terramycin lies in the low incidence of sensitivity following topical application (5). It was found in a series of one hundred and sixteen cases of ocular infection that only one patient developed the least sign of allergy (6). Terramycin ophthalmic ointment is useful in epidemic keratoconjunctivitis (7).

#### in SURGICAL INFECTIONS

Terramycin is the broad-spectrum antibiotic of choice in peritonitis (8), preoperative prophylaxis, and soft tissue infections. It is also effective in other conditions due to the broad range of Terramycin-sensitive organisms.

#### in VENEREOLOGY

It was considered that Terramycin is the first choice for gonorrhœal patients who are allergic to penicillin, who cannot with convenience be injected or who fear the needle. The same author found Terramycin to be unsurpassed in the treatment of non-specific urethritis (9).

#### in PÆDIATRICS

and the general field of infective medicine, the value of Terramycin is due to its very wide antibacterial range, its versatility and ease of administration, the rapidity of its action and its remarkably low toxicity. British investigators have stressed its particular value in pædiatric practice (10).

#### in EAR, NOSE & THROAT INFECTIONS

the broad spectrum of Terramycin is of particular value owing to the mixed nature of many of these conditions. It was found in a series of cases with chronic suppuration of the middle ear and mastoid that Terramycin gave the most satisfactory results (11). A satisfactory oral treatment of acute otitis media has again been recently reported (12).

#### in DERMATOLOGY

the particular value of Terramycin lies in the rapidity of its action and the low incidence of sensitization (13).

#### *Pfizer*

#### REFERENCES:

- I. J. Urol., Feb., 1953.
- 2. J. Philadelphia Gen. Hosp., Jan., 1951.

- 3. J. Pediat., Aug., 1951. 4. Brit. M.J., 3 Jan., 1953. 5. Am. J. Oph., May, 1951.
- 6. Paper presented at the Annual Conference of the Wills Eye Hosp. Assocn. Philadelphia. 16 March, 1951.
- 7. Brit. M.J., 8 Aug., 1953.
- 8. Brit, M.J., 2 May, 1953.
- 9. Practitioner, Dec., 1951.
- 10. Brit. M.J., 23 Feb., 1952.
- 11. Lancet, 16 Aug., 1952.
- 12. Brit. M.J., 11 Apr., 1953.
- 13. N.Y. State J.M., 15 Apr., 1952.

Full literature is available and will be supplied on request.

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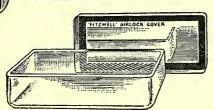
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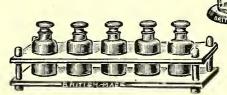
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Schweiz. med. Wschr., 1941, 71, 1093 Rev. méd. Suisse rom., 1941, 61, 585 Amer. J. dig. Dis., 1945, 12, 221



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Kleenex\* has done more to expand this market than any other tissue. Our intensive advertising support and sell-on-sight pack have obviously produced results! For fast turn-over, quick profitsstock Kleenex, display Kleenex!

1/-, 2/- and the "Family Box" at 2/9



ONLY KLEENEX CAN GIVE VOU THE GREATEST VOLUME



**KEEP KLEENEX ON DISPLAY!** 

Made by CELLUCOTTON PRODUCTS LTD., LONDON.

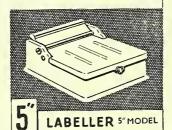
\*Reg. T.M.



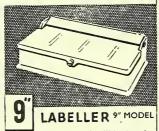


a flick of the Fingers

The Labeller is clean and speedy in operation; with the brush moistening device, labels are just 'flicked through 'between the pressure bar and over the brush and this ensures not too much or too little moisture to the labels, just sufficient all over moistening to gummed surface. The Labeller is made in red porcelain finish with a bright nickel feed plate over the tank.



This is a general purposes model with a 5" dampening brush area suitable for many kinds of gummed labels. It will moisten labels in any size up to 5" width. PRICE 32/6



BUTTERFLY BRAND

This, our largest model, will be found useful in factories and packing departments for moistening larger package and bale labels.

The dampening width is 9°. PRICE 60/-

LIGHTNING The dampening width is 9". PRICE 60/Regd.

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A medicated plaster, unsurpassed for removing corns painlessly.

Packed in new attractive counter display boxes, each containing I dozen cartons of 6 plasters.

PRICE 7/6 Per Dozen CARTONS

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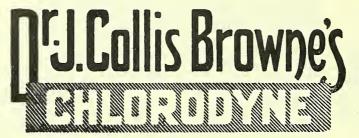
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It is also available as a rapidly dispersible paste.

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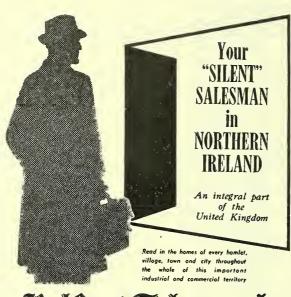
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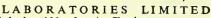
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to make a window display and ensure a steady flow of repeat orders for "AUTUMN SUN,"

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The complete set is FREE; ask our representative or write direct, sent post free.

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IMPERIAL HOUSE

84-86, REGENT STREET, LONDON, W.I. Works: Mistley. Essex.

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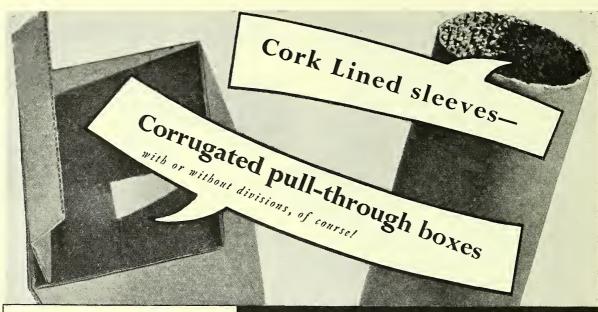
The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction.

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## CUTICURA SOAP CUTICURA OINTMENT CUTICURA TALCUM POWDER CUTICURA SHAVING STICK

There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

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Preceptin vaginal gel is available as follows:

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Supplies through your usual whalesaler please!

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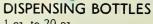
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Containers



1-oz. to 20-oz.

RIBBED OVALS

 $\frac{1}{2}$ -oz. to 16-oz.

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Nos. 1 to  $7\frac{1}{2}$  sizes.

**ROUND SCREW JARS** 

Tall and Semi-squat.

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2½-oz., 5-oz. & 10-oz.

WHOLESALE ONLY

Bow-Front Panels now also available in 16 oz. size.



- Prompt delivery from stock
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NATIONAL GLASS WORKS (YORK) LTD.

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Makers of "Niagara" Blackcurrant Syrup.

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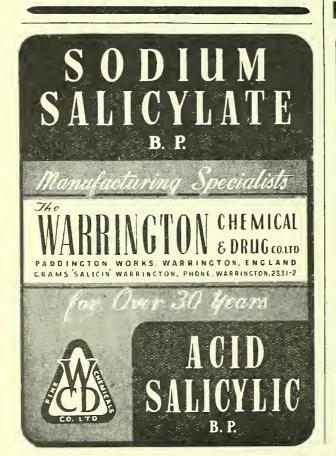
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Your simplest means of keeping in touch

# PHARMACEUTICAL FORMULAS

Vol. 1

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A new edition of this invaluable, standard reference book is now available. Completely revised and incorporating the latest formulations required by recent advances in medical science, it presents a comprehensive summary of vital pharmaceutical information compiled from world-wide sources.

- Material selected from twenty-six pharmacopæias, from British and foreign formularies and medical and pharmaceutical works published in all parts of the world.
- Includes thousands of formulas in everyday use by pharmacists in all branches of the industry; also many older formulas, the value of which has been proved by long experience.
- Particular attention has been paid to formulas designated in literature by the name of the originator.
- Notes on new or improved methods of manufacture of pharmaceutical preparations are included.

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- Formulas covering the whole field of galenical preparations are given, including one of a solution for use with contact lenses and one concerning radio-isotopes, from a recent foreign pharmacopæia.
- Index contains over 22,000 entries.

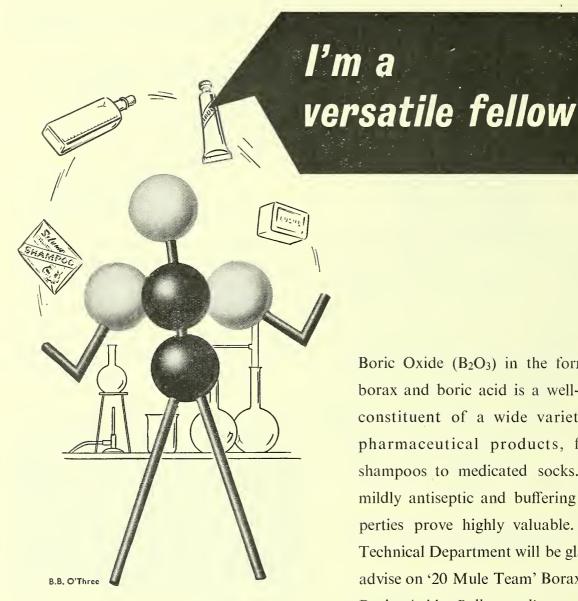
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BORAX CONSOLIDATED, LIMITED - REGIS HOUSE - KING WILLIAM STREET - LONDON - E.C.4



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ROBIN HOOD ESTATE, Kingston-by-Pass, Surrey. New shops for sale or to let, in good trading position. Each shop has a maisonette over comprising 3 bedrooms, 2 rec. rooms., kit., bathroom, w.c. With separate entrance. Very suitable for chemist business. Clifford & Clifford, 37 Bury St., St. James's, S.W.I. Tel.; Whitehall 5050.

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18/- per half-inch (min.) and pro rata. Box 2/-

BRADFORD EDUCATION
COMMITTEE,
TECHNICAL COLLEGE,
BRADFORD
Lecturer in Pharmaceutics
Applications are invited for appointment as Lecturer in Pharmaceutics in the Pharmacy Department of the College. The Lecturer will be expected to undertake work at degree level and to be interested in research.
The salary scale, which is in accordance with the Burnham Technical Award, is at present from £940 to £1,040 per annum for men, and from £752 to £832 per annum for momen. Further particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, 1, and completed forms should be returned to the Principal of the College as soon as possible.

A SPAIDING

A. SPALDING. Director of Education.

#### DARLINGTON DISTRICT HOSPITAL MANAGEMENT COMMITTEE

Pharmacist or Senior Pharmacist
Applications are invited for this vacancy at the Darlington Memorial Hospital, Salary scale for Pharmacist, £450 (age 23) x £25 to £625.

Applications in writing, together with names of two referces, to the Secretary. C 7244

HAREFIELD AND NORTHWOOD
GROUP HOSPITAL
MANAGEMENT COMMITTEE
Senior Pharmacist

Applications are invited for the post of
Senior Pharmacist at Harefield Hospital,
Harefield, Middx. Category III hospital,
Duties chiefly in charge of sterilising department. Salary and conditions of service in accordance with the Pharmaceutical Whitley
Council agreements, Applications, stating age,
qualifications and experience, together with
copies of three testimonials, to the Medical
Director of the hospital. C 7243

#### HEALTH CENTRE, SIGHTHILL, **EDINBURGH** NATIONAL HEALTH SERVICE

Assistant Pharmacist

Assistant Pharmacist

Applications are invited for the post of assistant pharmacist at the Health Centre, Sighthill, Edinburgh, The salary will be in accordance with the Whitley Council scale, £450 x £25—£575 per annum, The appointment will be subject to the Whitley Council Conditions of Service and the National Health Service (Scotland) (Superannuation) Regulations, Canvassing disqualifies, For further particulars and form of application apply to the Clerk, Edinburgh Executive Council, 37A Drumsheugh Gardens, Edinburgh, with whom applications should be lodged within ten days of the appearance of this advertisement. Envelopes should be marked—"Assistant Pharmacist—Health Centre." C 7249

# HEXHAM AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE, HEXHAM GENERAL HOSPITAL

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist at Hexham General Hospital. This is a newly created post in a modern depart-ment; an interest in sterilisation would be an

asset. Salary in accordance with the Pharmaceutical Whitley Council scales (£525 x £25—£625) plus additional £25 for recognised higher qualifica-

Applications stating age, qualifications, experience and names of two referees to the Group Secretary, Hexham General Hospital, Hexham, Northumberland, as early as possible. C 7258

#### ROYAL FREE HOSPITAL GROUP

Pharmacists

Applications are invited for the posts of Pharmacists in the following hospitals:—
(I) Royal Free Hospital, Gray's Inn Road,
W.C.I.

(1) Royal Free Hospital, North Western Branch, Lawn Road, Hampstead, N.W.3.
(3) Hampstead General Hospital, Haverstock Hill, N.W.3.
Salary in accordance with Whitley Council Scale. Applications, together with names of two referees, should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

#### ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10

(a) Deputy Chicf, (b) Senior Pharmacist Applications are invited for the posts of (a) Deputy Chief, (b) Senior Pharmacist in a well-equipped department at the above hospital, Inspection of department may be made by arrangement with Chief Pharmacist. Whitely Council salary and conditions, Applications to Group Secretary, G.&D./H.M.C., at above hospital as soon as possible. C 7216

### POWICK HOSPITAL, NR. WORCESTER Assistant in Dispensing

(male or female) preferably with Apothecaries Hall or similar certificate required. National Health Service Superannuation conditions will apply. Salary (age 22) £335 to £435, plus £15 per annum for Apothecaries Hall or similar certificate.

Applications by letter to the Medical Superin-

# ST. BERNARD'S HOSPITAL FOR NERVOUS AND MENTAL DISORDERS,

SOUTHALL, MIDDLESEX
Pharmacist
required at above hospital, Whitley Council
salary (£450 x £25 to £575, plus London
Weighting), and conditions will apply. The
post is subject to the National Health Service Superannuation Regulations, No house
available, Application forms obtainable from
the Physician Superintendent, C 7242

SUNDERLAND TECHNICAL
COLLEGE

Principal: D. A. Wrangham, M.Sc.(Lond.),
Sen.Wh.Sc., D.I.C., A.C.G.I., M.I.Mech.E.
Applications are invited for the following
posts in the pharmacy department:—

1. Assistant Lecturer in Pharmaceutical
Subjects
Subjects

Subjects

Candidates must be graduates in pharmacy or chemistry.

chemistry.

Industrial, research or teaching experience will be an advantage but not a necessity.

The successful candidate will be required to assist in the teaching of pharmaceutics and will be encouraged to undertake research work. Salary will be in accordance with the Burnham (Technical) Scale for Assistant Lecturers, Grade B—

(declinical) Scale for Assistant Lecturers, Grade B—

Men ... £490 x £25 to £765 per annum.

Women ... £437 x £20 to £612 per annum.

Plus allowances for degree and training,

Increments may be payable for approved ex-

Increments may be payable for approved experience.
2 and 3, Demonstrator in Pharmacourics and Demonstrator in Pharmacognosy.
Candidates for both the Demonstratorships should have a qualification of the Pharmacourical Society or a Degree in Pharmacy and be desirous of continuing their studies.
The successful candidates will be required to assist in the teaching of practical classes, Salary ... £415 per annum.
In each case the successful candidate will be required to commence duties on September 1, 1954, or as soon after as possible.
Further particulars and Forms of Application may be obtained from the Registrar, The Technical College, Sunderland, co. Durham. Applications should reach the undersigned within fourteen days of the appearance of this within fourteen days of the appearance of this

within touriest advertisement.

Canvassing will be a disqualification.

W. THOMPSON,

N. THOMPSON,

On the control of Experience of Experience

Direction of Education.

Education Offices, 15 John St., Sunderland, Co. Durham.

C 7231

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#### Appointments—Continued

## ST. AUGUSTINE'S HOSPITAL CHARTHAM, NR. CANTERBURY Assistant in Dispensing

Assistant in Dispensing
(male or female) required. Salary scale £335
to £435 p.a., plus £15 p.a. for Certificate of
Apothecaries or equivalent. (Lower salary
applies until 22 years of age.) Resident accomapplies until 22 years of age.) Resident accommodation available for female assistant if required. Apply, giving age, experience and names of two referees to Secretary, St. Augustine's Hospital, Chartham, nr. Canterbury.

C 7230

#### ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1 Locum Pharmicists

Immediate vacancies exist for Locum Pharmacists until the end of September. Wage £15 15s. per week. Write, enclosing copies of testimonials, to the Chief Pharmacist. C 7220

# THE LONDON HOSPITAL

WHITECHAPEL, LONDON, E.1 Locum Registered Pharmacists required to mid-October 1954, Salary £14 14s, per week. Dining-room facilities, Write Secre-tary, C 186

THE LONDON HOSPITAL,
WHITECHAPEL, LONDON, E.1
Pharmacist

Applicants must be registered Pharmacists.
Salary scale £450 (age 23) x £25 to £575 plus
London Weighting according to previous experience and service. Dining-room facilities
available. Write Secretary. C 179

#### THE MILLER GENERAL AND ST. ALFEGE'S HOSPITALS GREENWICH, LONDON, S.E.10 Assistant in Dispensing

Assistant in Dispensing
Permanent or locum required at each of the
above hospitals. Whitley Council rate and
conditions. Apply Chief Pharmacists, Tel.:
Tid. 1136 and Grc. 2655 respectively. C 7215

## THE MILLER GENERAL

THE MILLER GENERAL
HOSPITAL, GREENWICH, S.E.10
(a) Senior Pharmacist, (b) Pharmacist
Applications are invited for the posts of (a)
Senior Pharmacist, (b) Pharmacist in a wellequipped pharmaceutical department at the
above hospital. Inspection of the department
may be made by arrangement with Chief
Pharmacist, Pharmaceutical Whitley Council
salary and conditions. Applications to Secretary, G. & D./H.M.C., St. Alfege's Hospital,
S.E.10, as soon as possible.

C 7214

## THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1 Pharmacist

Pharmacist
Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£525) plus London Weighting, £25 for recognised higher qualification, Apply by letter to Chief Pharmacist.

#### WEST MIDDLESEX HOSPITAL, **ISLEWORTH** (Category V)

#### (South-west Middlesex Hospital Management Committee)

Management Committee)

Pharmacist
required. Salary scale £450 x £25 to £575 plus
London Weighting, Higher qualification allowance £25 per annum. Whitley conditions applicable. Applications stating age, qualifications and experience, with names of two referees, to Chief Pharmacist.

### SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

#### RETAIL (HOME)

ANNFIELD PLAIN Co-operative Society, Ltd. Wanted: Pharmacist to manage branch shop which is shortly to be opened at Framwell-gate Moor, Durham. (Rented flat available.) N.U.C.O. scale of wages. Applications, stating age and experience, to be sent to the General Manager, Front St., Annfield Plain, Stanley, co. Durham. C 1445

EALING. Excellent opportunity for energetic pharmacist to manage nicely fitted branch in pleasant suburban area, Generous salary and monthly bonus, Excellent self-contained flat available near to branch, Good supporting staff. Permanency with generous sickness benefits and pension fund. Apply with full details stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10. C 1496

HAYES, MIDDLESEX. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well-fitted shop, Adeparanch in picasant area. Well-inted shop, Acc quare assistance, Modern dispensary, Progres-sive salary with monthly bonus and rota duty payments, Accommodation available if required, Permanency with pension fund, etc. Apply with full details stating when available for inter-view to Box C 1494.

H.FORD. Pharmacist required to manage expanding branch close to busy main-line station. Up-to-date dispensary and excellent supporting staff, Self-contained flat available within easy distance of the branch. Attractive salary and bonus scheme. Apply with full details stating when available for interview to Box C 1495.

LADY ASSISTANT REQUIRED for high-class pharmacy. Apply stating age, experience and salary required to S. H. Newman, Chem-ist, 19 Victoria Road, Surbiton, Surrey. C 1502

MANAGER for pharmacy, small North Essex manyacer for pharmacy, small North Issections country town, opening for optics, good living accommodation, salary and commission basis, State age, refs., married or single, when free, salary required and photograph to S. J. Corden, M.P.S., Grace Court, Woodlands Av., Hornchurch, Essex. C 1469

NORTH LONDON SUBURB. Excellent opportunity for experienced pharmacist to manage substantial business. Spacious shop and dispensary, nicely fitted, Good supporting staff, Excellent salary and monthly bonus. Superannuation fund, etc. Accommodation available. Apply Chief Pharmacist, Grange Road, Leyton, E.10.

NORTH LONDON. Unqualified dispensing assistant required for good-class pharmacy, retail experience essential. Apply with all particulars to John Harley, Ltd., 153 Regency St., S.W.1. C 1461

PHARMACY SUPERINTENDENT, either sex. Congenial post. Carruthers Chemists, Ltd., 432 Katherine Road, Forest Gate, E.7. C 1507

STOCKTAKERS required for London firm, Experience an asset, Duties in London and provinces, Substantial salary and expenses, Apply Box C 7259.

THE ROYAL ARSENAL Co-operative Chemists, Ltd., will shortly have vacancies as managers for attractive pharmacies in southwest London, and inquiries are invited from pharmacists who are seeking permanent positions with superannuation benefits. Apply for appointment to the Staff Manager, Royal Arsenal Co-operative Chemists, Ltd., 71 Powis Street, Woolwich, S.E.18.

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A QUALIFIED MAN, preferably single, required to manage important English pharmacy in Hong Kong, Only men who have received a first-class training in wholesale and retail pharmacy need apply. Living accommodation, staff pension scheme, passage paid. Excellent prospects for the right man. Reply, A. S. Watson & Co., Ltd., 64 Crutched Friars, London, E.C.3.

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C 7264

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BOOTS PURE DRUG CO., LTD., have a vacancy in their pharmaceutical works at Airdrie, Lanarkshire, for a young male pharmacist. Preference will be shown to a Scotsman. Five-day week is worked and the successful applicant will be admitted to the superannuation fund after serving a short probationary period. Applications to be made to the Personnel Manager, Station Street, Nottingham.

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C 7219

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Apply Box C 7254.

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Ref. Hounslow, Middx. C7255

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Apply Box C 72/0,

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WHOLESALE

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